

Project list of 1000 projects					
S.No	Project Name	Description	Components Used	SDG Goal Mapped	Suitable for Grades
1	Smart Dustbin	An automated dustbin that opens its lid when someone approaches.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	6-8
2	Automatic Plant Watering System	Waters plants automatically based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Relay Module, Pump	SDG 2: Zero Hunger	6-9
3	Home Security System	Detects motion and triggers an alarm for home security.	Arduino UNO, PIR Sensor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	7-10
4	Temperature and Humidity Monitor	Displays real-time temperature and humidity readings.	Arduino UNO, DHT11 Sensor, LCD Display	SDG 13: Climate Action	6-8
5	Smart Traffic Light System	Controls traffic lights based on real-time traffic conditions.	Arduino UNO, IR Sensors, LEDs	SDG 11: Sustainable Cities and Communities	9-12
6	Smart Light Control	Automatically turns lights on/off based on room occupancy.	Arduino UNO, PIR Sensor, Relay Module, Light Bulb	SDG 7: Affordable and Clean Energy	6-9
7	Rain Alarm System	Alerts when it starts raining, useful for drying clothes or farms.	Arduino UNO, Rain Sensor, Buzzer	SDG 13: Climate Action	6-8
8	Blind Spot Detection for Vehicles	Detects obstacles in vehicle blind spots.	Arduino UNO, Ultrasonic Sensors, LEDs	SDG 3: Good Health and Well-being	9-12
9	Smart Irrigation System	Irrigates fields based on soil moisture and time settings.	Arduino UNO, RTC Module, Soil Moisture Sensor, Pump	SDG 2: Zero Hunger	9-12
10	Digital Attendance System	Tracks student attendance using RFID cards.	Arduino UNO, RFID Reader, RFID Tags, LCD	SDG 4: Quality Education	9-12
11	Air Quality Monitor	Measures air pollutants and displays quality index.	Arduino UNO, MQ135 Sensor, LCD Display	SDG 3: Good Health and Well-being	9-12
12	Hand Gesture Controlled Robot	Controls a robot using hand gestures.	Arduino UNO, Accelerometer, Motor Driver, RF Module	SDG 9: Industry, Innovation and Infrastructure	10-12
13	Obstacle Avoiding Robot	A robot that avoids obstacles automatically.	Arduino UNO, Ultrasonic Sensor, Motor Driver, Wheels	SDG 9: Industry, Innovation and Infrastructure	8-10
14	Fire Detection System	Detects fire and triggers an alarm.	Arduino UNO, Flame Sensor, Buzzer, LED	SDG 11: Sustainable Cities and Communities	6-9

15	Smart Parking System	Detects free parking slots and displays availability.	Arduino UNO, IR Sensors, LCD Display	SDG 11: Sustainable Cities and Communities	9–12
16	Smart Thermostat	Controls room temperature using heater/cooler logic.	Arduino UNO, DHT11, Relay, Fan/Heater	SDG 13: Climate Action	9–12
17	Automatic Door Lock System	Unlocks door using password input via keypad.	Arduino UNO, Keypad, Servo Motor, LCD	SDG 16: Peace, Justice and Strong Institutions	8–11
18	Voice Controlled Lights	Switches lights on/off using voice commands.	Arduino UNO, Bluetooth Module, Smartphone, Relay	SDG 7: Affordable and Clean Energy	9–12
19	Heartbeat Monitoring System	Displays the heartbeat rate on an LCD screen.	Arduino UNO, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	7–10
20	Smart Refrigerator Monitor	Tracks open door time and temperature to reduce energy usage.	Arduino UNO, Temperature Sensor, Magnetic Sensor	SDG 12: Responsible Consumption and Production	10–12
21	Emergency Alert Button	Sends an alert when pressed, useful for elderly or disabled.	Arduino UNO, GSM Module, Push Button	SDG 3: Good Health and Well-being	9–12
22	Water Level Indicator	Monitors water tank level and alerts when full/empty.	Arduino UNO, Ultrasonic Sensor, Buzzer, LEDs	SDG 6: Clean Water and Sanitation	6–9
23	Smart Classroom Bell System	Rings bell at scheduled times automatically.	Arduino UNO, RTC Module, Relay Module, Buzzer	SDG 4: Quality Education	6–10
24	Earthquake Detection System	Detects tremors and sends early warnings.	Arduino UNO, Vibration Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	10–12
25	Wireless Notice Board	Displays messages remotely via Bluetooth.	Arduino UNO, Bluetooth Module, LCD Display	SDG 9: Industry, Innovation and Infrastructure	8–12
26	Smart Traffic Light System	Controls traffic flow based on sensor inputs.	Arduino UNO, IR Sensors, LEDs	SDG 11: Sustainable Cities and Communities	9–12
27	Plant Monitoring System	Monitors soil moisture, temperature, and light for plants.	Arduino UNO, Soil Moisture Sensor, DHT11, LDR	SDG 15: Life on Land	7–10
28	Automated Pet Feeder	Dispenses food to pets at set intervals.	Arduino UNO, Servo Motor, RTC Module	SDG 12: Responsible Consumption and Production	7–9
29	Line Following Robot	Follows a black line path using IR sensors.	Arduino UNO, IR Sensors, Motor Driver	SDG 9: Industry, Innovation and Infrastructure	8–10
30	Gas Leakage Detector	Detects gas leaks and activates buzzer and alerts.	Arduino UNO, MQ2 Gas Sensor, Buzzer, LEDs	SDG 3: Good Health and Well-being	8–12

31	Gesture-Based Wheelchair	Controls wheelchair direction via hand gestures.	Arduino UNO, Accelerometer, Motor Driver	SDG 10: Reduced Inequalities	11–12
32	Attendance via Face Detection	Uses face recognition to mark attendance (with Arduino cam).	Arduino UNO, Camera Module, SD Card Module	SDG 4: Quality Education	11–12
33	Smart Dustbin	Opens lid automatically when someone approaches.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	6–8
34	Weather Station	Monitors temperature, humidity, and pressure.	Arduino UNO, DHT11, BMP180 Sensor, LCD	SDG 13: Climate Action	9–12
35	Anti-Theft Alarm	Detects unauthorized motion and activates alarm.	Arduino UNO, PIR Sensor, Buzzer	SDG 16: Peace, Justice and Strong Institutions	6–9
36	Real-Time Clock with Alarm	Displays time and rings alarm at set intervals.	Arduino UNO, RTC Module, Buzzer, LCD	SDG 4: Quality Education	6–9
37	Smart Voting Machine	Registers and counts votes securely.	Arduino UNO, Keypad, LCD Display	SDG 16: Peace, Justice and Strong Institutions	10–12
38	Smart Fan Controller	Adjusts fan speed based on room temperature.	Arduino UNO, DHT11, Relay Module, Fan	SDG 7: Affordable and Clean Energy	6–10
39	Baby Monitor	Alerts when baby is crying or moving.	Arduino UNO, Sound Sensor, PIR Sensor	SDG 3: Good Health and Well-being	8–10
40	Wireless Home Automation	Controls home appliances using smartphone.	Arduino UNO, Bluetooth Module, Relay Module	SDG 7: Affordable and Clean Energy	9–12
41	Parking Assistant System	Helps with distance estimation while parking.	Arduino UNO, Ultrasonic Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	7–10
42	Weather-Based Clothing Suggestor	Suggests what to wear based on weather data.	Arduino UNO, DHT11, LCD Display	SDG 3: Good Health and Well-being	8–10
43	Light-Activated Alarm	Triggers alarm when light intensity changes suddenly.	Arduino UNO, LDR, Buzzer	SDG 16: Peace, Justice and Strong Institutions	6–8
44	Distance Measuring Tool	Displays measured distance on screen.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 9: Industry, Innovation and Infrastructure	6–9
45	Smart Helmet for Riders	Detects crash and sends location.	Arduino UNO, Accelerometer, GSM Module, GPS Module	SDG 3: Good Health and Well-being	10–12
46	Public Transport Tracker	Tracks location of buses or trains and displays ETA.	Arduino UNO, GPS Module, LCD Display	SDG 11: Sustainable Cities and Communities	10–12
47	Light-Following Robot	Robot that moves toward a light source.	Arduino UNO, LDRs, Motor Driver, Wheels	SDG 9: Industry, Innovation and Infrastructure	7–10

48	Medicine Reminder System	Reminds patient to take medicine at specific times.	Arduino UNO, RTC Module, Buzzer, LCD Display	SDG 3: Good Health and Well-being	7–10
49	RFID Door Unlock System	Unlocks door using RFID authentication.	Arduino UNO, RFID Reader, Servo Motor	SDG 16: Peace, Justice and Strong Institutions	9–12
50	Water Quality Tester	Measures turbidity and pH of water.	Arduino UNO, Turbidity Sensor, pH Sensor	SDG 6: Clean Water and Sanitation	10–12
51	Temperature Logging System	Logs temperature data over time onto an SD card.	Arduino UNO, DHT11, SD Card Module	SDG 13: Climate Action	9–12
52	Interactive Quiz Game	An electronic quiz system for multiple-choice questions.	Arduino UNO, Buzzer, Push Buttons, LEDs, LCD	SDG 4: Quality Education	6–10
53	Energy Consumption Monitor	Displays real-time energy usage of appliances.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	10–12
54	Color Sorting Robot	Robot that sorts objects based on their colors.	Arduino UNO, Color Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	9–12
55	UV Index Monitor	Measures UV radiation to prevent overexposure.	Arduino UNO, UV Sensor, LCD	SDG 3: Good Health and Well-being	8–11
56	Automatic Plant Watering	Waters plants automatically based on soil moisture.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 15: Life on Land	6–9
57	Digital Dice	Simulates dice rolling using random LED patterns.	Arduino UNO, Push Button, LEDs	SDG 4: Quality Education	6–8
58	Humidity-Based Fan Controller	Automatically operates a fan based on humidity levels.	Arduino UNO, DHT11, Relay, Fan	SDG 13: Climate Action	8–10
59	Automated Toll Collection	Simulates toll collection with RFID tags.	Arduino UNO, RFID Reader, Servo Motor	SDG 9: Industry, Innovation and Infrastructure	10–12
60	Smart Alarm Clock	Alarm with sensors for light, sound, and temperature.	Arduino UNO, RTC Module, DHT11, LDR, Buzzer	SDG 3: Good Health and Well-being	8–11
61	Remote Controlled Car	Car that can be controlled via Bluetooth.	Arduino UNO, Bluetooth Module, Motor Driver, Chassis	SDG 9: Industry, Innovation and Infrastructure	7–10
62	Library Management System	Uses RFID to manage book check-ins and check-outs.	Arduino UNO, RFID Reader, LCD	SDG 4: Quality Education	10–12
63	Solar Tracker	Moves solar panels to face sunlight for optimal power.	Arduino UNO, LDRs, Servo Motors	SDG 7: Affordable and Clean Energy	9–12
64	Maze Solving Robot	Navigates through a maze using sensors.	Arduino UNO, IR Sensors, Motor Driver	SDG 9: Industry, Innovation and Infrastructure	9–12

65	Digital Weighing Machine	Measures and displays object weight using a sensor.	Arduino UNO, Load Cell, HX711, LCD	SDG 12: Responsible Consumption and Production	10–12
66	Weather Forecast Display	Displays real-time weather using API data.	Arduino UNO, Wi-Fi Module, LCD	SDG 13: Climate Action	10–12
67	Automatic Room Freshener	Sprays air freshener when motion is detected.	Arduino UNO, PIR Sensor, Servo Motor	SDG 3: Good Health and Well-being	7–10
68	Laser Security System	Sounds alarm when a laser beam is broken.	Arduino UNO, Laser Module, LDR, Buzzer	SDG 16: Peace, Justice and Strong Institutions	9–12
69	Electronic Voting System	Collects and counts votes electronically.	Arduino UNO, Push Buttons, LCD, LEDs	SDG 16: Peace, Justice and Strong Institutions	9–12
70	Heartbeat-Controlled Light	Changes light intensity based on pulse rate.	Arduino UNO, Pulse Sensor, LED	SDG 3: Good Health and Well-being	9–12
71	Portable Weather Station	Compact, battery-powered weather monitor.	Arduino UNO, DHT11, BMP180, LCD	SDG 13: Climate Action	9–12
72	Gaming Console	A basic handheld gaming system using buttons and an LCD.	Arduino UNO, Push Buttons, LCD, Buzzer	SDG 4: Quality Education	7–10
73	Personal Assistant System	Voice-controlled device to help with tasks.	Arduino UNO, Bluetooth Module, Smartphone	SDG 9: Industry, Innovation and Infrastructure	10–12
74	Smart Medicine Box	Opens only at scheduled medicine times.	Arduino UNO, RTC Module, Servo Motor	SDG 3: Good Health and Well-being	8–10
75	Greenhouse Automation	Regulates greenhouse temperature and humidity.	Arduino UNO, DHT11, Relay Module, Fan, Pump	SDG 15: Life on Land	9–12
76	Earthquake Detector	Detects seismic activity using a vibration sensor.	Arduino UNO, Vibration Sensor, Buzzer, LCD	SDG 11: Sustainable Cities and Communities	9–12
77	Voice Controlled Lights	Operates lights via voice commands using a mobile app.	Arduino UNO, Bluetooth Module, Relay, Microphone Module	SDG 9: Industry, Innovation and Infrastructure	8–12
78	Water Leak Detector	Alerts when water is detected in unwanted areas.	Arduino UNO, Water Sensor, Buzzer, LED	SDG 6: Clean Water and Sanitation	6–9
79	Pollution Monitoring System	Measures air quality parameters like CO, CO ₂ , and dust.	Arduino UNO, MQ135 Sensor, Dust Sensor, LCD	SDG 11: Sustainable Cities and Communities	10–12
80	Fire Detection and Alert System	Detects fire and sends alerts or activates alarms.	Arduino UNO, Flame Sensor, Buzzer, LED	SDG 11: Sustainable Cities and Communities	8–11
81	Smart Gate	Opens gate using RFID card or passcode.	Arduino UNO, RFID Reader, Servo Motor, Keypad	SDG 16: Peace, Justice and Strong Institutions	9–12

82	Gesture Controlled Robot	Robot moves based on hand gestures using an accelerometer.	Arduino UNO, Accelerometer, Motor Driver, Bluetooth Module	SDG 9: Industry, Innovation and Infrastructure	9–12
83	Mobile-Controlled Fan	Controls fan speed with mobile phone.	Arduino UNO, Bluetooth Module, Relay Module, Fan	SDG 7: Affordable and Clean Energy	8–11
84	Smart Bin	Bin opens lid automatically when someone approaches.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	6–9
85	Plant Health Monitor	Monitors temperature, humidity, and soil moisture for plant care.	Arduino UNO, DHT11, Soil Moisture Sensor, LCD	SDG 15: Life on Land	7–10
86	RFID-Based Attendance System	Marks attendance using RFID cards.	Arduino UNO, RFID Reader, LCD	SDG 4: Quality Education	9–12
87	Noise Level Meter	Measures and displays noise levels in dB.	Arduino UNO, Sound Sensor, LCD	SDG 3: Good Health and Well-being	8–11
88	Smart Baby Cradle	Automatically rocks cradle when baby cries.	Arduino UNO, Sound Sensor, Servo Motor	SDG 3: Good Health and Well-being	9–12
89	Light Following Robot	Robot follows a light source using sensors.	Arduino UNO, LDRs, Motor Driver	SDG 4: Quality Education	7–10
90	Rain Sensing Window	Automatically closes window when it rains.	Arduino UNO, Rain Sensor, Servo Motor	SDG 13: Climate Action	8–11
91	Smart Shelf	Measures and displays available shelf space.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 12: Responsible Consumption and Production	9–12
92	Door Knock Sensor	Detects door knocks and activates buzzer or lights.	Arduino UNO, Vibration Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	6–9
93	Clap Switch	Turns appliances on/off with a clap.	Arduino UNO, Sound Sensor, Relay Module	SDG 9: Industry, Innovation and Infrastructure	6–10
94	Smart Parking System	Detects vacant parking slots using sensors.	Arduino UNO, Ultrasonic Sensors, LEDs	SDG 11: Sustainable Cities and Communities	9–12
95	Speed Checker for Highways	Detects and displays vehicle speed using sensors.	Arduino UNO, IR Sensors, LCD	SDG 3: Good Health and Well-being	10–12
96	Water Quality Monitor	Tests water for turbidity and pH levels.	Arduino UNO, pH Sensor, Turbidity Sensor, LCD	SDG 6: Clean Water and Sanitation	10–12
97	Gas Leakage Detector	Detects harmful gases and activates alarm.	Arduino UNO, MQ2 Sensor, Buzzer, LCD	SDG 3: Good Health and Well-being	8–12

98	Smart Mirror	Displays weather, time, and news using a mirror and display.	Arduino UNO, LCD, RTC Module, Wi-Fi Module	SDG 9: Industry, Innovation and Infrastructure	10–12
99	Digital Notice Board	Updates school messages wirelessly.	Arduino UNO, Bluetooth Module, LCD	SDG 4: Quality Education	8–12
100	Step Counter	Counts and displays number of steps taken.	Arduino UNO, Accelerometer, LCD	SDG 3: Good Health and Well-being	7–10
101	Smart Recycling Bin	Segregates waste into recyclable and non-recyclable bins.	Arduino UNO, IR Sensor, Servo Motors	SDG 12: Responsible Consumption and Production	9–12
102	Air Cooler Controller	Controls cooler based on room temperature and humidity.	Arduino UNO, DHT11, Relay, Fan, Water Pump	SDG 13: Climate Action	9–12
103	Classroom Noise Monitor	Alerts when classroom noise exceeds a safe level.	Arduino UNO, Sound Sensor, Buzzer, LED	SDG 4: Quality Education	6–9
104	Digital Stopwatch	Timer with start, stop, and reset functions.	Arduino UNO, Push Buttons, LCD	SDG 4: Quality Education	6–9
105	Smart Refrigerator Alert System	Sends alerts when fridge door remains open too long.	Arduino UNO, Magnetic Reed Switch, Buzzer	SDG 12: Responsible Consumption and Production	8–11
106	Wireless Weather Station	Collects and transmits environmental data wirelessly.	Arduino UNO, DHT11, NRF24L01 Transceiver	SDG 13: Climate Action	10–12
107	Contactless Thermometer	Measures temperature without physical contact.	Arduino UNO, IR Temperature Sensor, LCD	SDG 3: Good Health and Well-being	9–12
108	Wildlife Motion Camera Trigger	Captures images of wildlife upon motion detection.	Arduino UNO, PIR Sensor, Camera Module	SDG 15: Life on Land	10–12
109	Street Light Intensity Controller	Adjusts streetlight brightness based on ambient light.	Arduino UNO, LDR, Relay, LED Light	SDG 7: Affordable and Clean Energy	9–12
110	Hand Wash Timer	Encourages proper handwashing duration.	Arduino UNO, IR Sensor, Buzzer, LCD	SDG 3: Good Health and Well-being	6–8
111	Distance Measuring Tool	Measures distance using ultrasonic sensor and displays on LCD.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 9: Industry, Innovation and Infrastructure	7–10
112	Smart Curtain Opener	Automatically opens/closes curtains based on sunlight.	Arduino UNO, LDR, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
113	Digital Compass	Displays direction using magnetometer.	Arduino UNO, Magnetometer Module, LCD	SDG 4: Quality Education	9–12

114	Animal Repeller	Emits sound to deter animals from fields or gardens.	Arduino UNO, Ultrasonic Sensor, Buzzer	SDG 2: Zero Hunger	9–12
115	IR Remote-Controlled Devices	Controls devices using a TV remote.	Arduino UNO, IR Receiver, Relay Module	SDG 9: Industry, Innovation and Infrastructure	8–12
116	Automatic Toilet Flusher	Flushes toilet automatically after use.	Arduino UNO, IR Sensor, Servo Motor	SDG 6: Clean Water and Sanitation	8–10
117	Virtual Piano	A touch-based piano using push buttons and sound output.	Arduino UNO, Push Buttons, Buzzer	SDG 4: Quality Education	6–8
118	Wireless Light Control via IR	Turns lights on/off using an IR remote.	Arduino UNO, IR Receiver, Relay Module	SDG 9: Industry, Innovation and Infrastructure	6–9
119	Digital Rain Gauge	Measures rainfall and stores the data.	Arduino UNO, Rain Sensor, SD Card Module	SDG 13: Climate Action	10–12
120	Smart Dustbin Usage Tracker	Tracks how full the dustbin is and notifies when full.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 12: Responsible Consumption and Production	8–11
121	Pet Feeding Timer	Releases food for pets at scheduled times.	Arduino UNO, RTC Module, Servo Motor	SDG 15: Life on Land	7–10
122	Real-Time Water Level Indicator	Shows water tank levels using LEDs.	Arduino UNO, Ultrasonic Sensor, LEDs	SDG 6: Clean Water and Sanitation	6–10
123	Smart Thermostat	Adjusts heater/fan based on set temperature threshold.	Arduino UNO, DHT11, Relay Module	SDG 13: Climate Action	8–11
124	Lab Equipment Usage Monitor	Logs lab equipment usage hours and alerts for maintenance.	Arduino UNO, Current Sensor, LCD, RTC	SDG 9: Industry, Innovation and Infrastructure	10–12
125	DIY Digital Level Tool	Measures tilt angle and displays on screen.	Arduino UNO, Accelerometer, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
126	Temperature-Controlled Fan	Fan speed is controlled based on room temperature.	Arduino UNO, DHT11, Relay, Fan	SDG 7: Affordable and Clean Energy	8–11
127	Voice-Controlled Robot	Robot movement controlled by voice commands.	Arduino UNO, Bluetooth Module, Motor Driver, Microphone	SDG 9: Industry, Innovation and Infrastructure	9–12
128	Solar Powered Streetlight	Streetlight powered by solar energy with automatic light control.	Arduino UNO, Solar Panel, LDR, Relay	SDG 7: Affordable and Clean Energy	9–12
129	Smart Attendance System	Detects attendance based on face recognition.	Arduino UNO, Camera Module, SD Card Module	SDG 4: Quality Education	9–12

130	Smart Home Security System	Detects intrusions and sends alerts via SMS.	Arduino UNO, PIR Sensor, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
131	Solar Water Heater Controller	Controls the temperature of a solar water heater.	Arduino UNO, Temperature Sensor, Relay, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
132	Arduino-Powered Morse Code Machine	Converts text to Morse code using LEDs.	Arduino UNO, LEDs, Push Buttons	SDG 4: Quality Education	7–10
133	Automated Blinds	Opens and closes blinds automatically based on sunlight.	Arduino UNO, LDR, Servo Motor	SDG 7: Affordable and Clean Energy	8–12
134	GPS-Based Location Tracker	Tracks and displays the GPS location.	Arduino UNO, GPS Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
135	Smoke Detection and Alarm System	Detects smoke and sounds an alarm.	Arduino UNO, MQ2 Sensor, Buzzer	SDG 3: Good Health and Well-being	8–12
136	Car Parking System	Detects vacant parking spaces and guides vehicles.	Arduino UNO, Ultrasonic Sensor, LCD, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
137	Automated Pet Watering System	Waters pets automatically based on a timer or sensor.	Arduino UNO, Water Pump, RTC Module, Relay	SDG 15: Life on Land	8–11
138	Smart Classroom Light Control	Automatically adjusts classroom lighting based on ambient light.	Arduino UNO, LDR, Relay Module, LED	SDG 7: Affordable and Clean Energy	8–12
139	Gesture-Controlled Wheelchair	Controls a wheelchair's movement using hand gestures.	Arduino UNO, Accelerometer, Motor Driver	SDG 3: Good Health and Well-being	10–12
140	DIY Metal Detector	Detects metals and sounds an alarm.	Arduino UNO, Metal Detector Coil, Buzzer	SDG 12: Responsible Consumption and Production	9–12
141	Smart Health Monitoring System	Monitors heart rate, body temperature, and alerts if abnormal.	Arduino UNO, Pulse Sensor, Temperature Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
142	Blind Person Assistance Robot	Helps blind people by guiding them in an environment.	Arduino UNO, Ultrasonic Sensors, Servo Motors, DC Motors	SDG 10: Reduced Inequality	9–12
143	Digital Caliper	Measures the thickness or diameter of an object with digital display.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
144	Water Temperature Controller	Regulates water temperature in a tank.	Arduino UNO, Temperature Sensor, Relay, Heater	SDG 6: Clean Water and Sanitation	9–12

145	Wi-Fi Controlled Home Appliances	Controls home appliances via a Wi-Fi network using a smartphone app.	Arduino UNO, ESP8266, Relay Module	SDG 7: Affordable and Clean Energy	10–12
146	Real-Time Train Tracker	Displays real-time train arrival time based on GPS data.	Arduino UNO, GPS Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
147	Smart Lock System	Unlocks doors with fingerprint or face recognition.	Arduino UNO, Fingerprint Sensor, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
148	Energy Meter	Measures and displays energy consumption.	Arduino UNO, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12
149	Hydroponic System	Monitors and controls the parameters for growing plants hydroponically.	Arduino UNO, pH Sensor, Water Pump, Relay	SDG 2: Zero Hunger	9–12
150	Emergency Alert System	Sends emergency alerts to predefined contacts via SMS.	Arduino UNO, GSM Module, Push Button	SDG 3: Good Health and Well-being	9–12
151	Hand Gesture Controlled Robot	Controls robot movement using hand gestures.	Arduino UNO, Accelerometer, Servo Motors, Motor Driver	SDG 9: Industry, Innovation and Infrastructure	9–12
152	Smart Home Automation	Automates home appliances based on voice commands.	Arduino UNO, Bluetooth Module, Relay Module	SDG 7: Affordable and Clean Energy	9–12
153	Blood Pressure Monitoring System	Monitors and displays blood pressure readings.	Arduino UNO, Pressure Sensor, LCD	SDG 3: Good Health and Well-being	10–12
154	Solar Charger	Charges devices using solar power.	Arduino UNO, Solar Panel, Battery, Diode	SDG 7: Affordable and Clean Energy	9–12
155	Smoke and Gas Leak Detection	Detects smoke or gas leaks and sends an alert.	Arduino UNO, MQ2 Gas Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
156	Smart Fan Controller	Automatically adjusts fan speed based on room temperature.	Arduino UNO, DHT11, Relay, Fan	SDG 13: Climate Action	9–12
157	Soil Moisture Monitoring System	Monitors soil moisture and controls watering.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 15: Life on Land	9–12
158	Smart Traffic Signal System	Controls traffic lights based on vehicle density.	Arduino UNO, IR Sensors, Servo Motors	SDG 11: Sustainable Cities and Communities	9–12
159	Bicycle Speedometer	Displays the speed of a bicycle in real time.	Arduino UNO, Encoder Wheel, LCD	SDG 9: Industry, Innovation and Infrastructure	8–12
160	Digital Thermometer	Measures and displays temperature digitally.	Arduino UNO, Temperature Sensor, LCD	SDG 3: Good Health and Well-being	6–9

161	Temperature-Sensitive Fan	Turns fan on/off based on a set temperature threshold.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
162	Real-Time Clock with Alarm	Displays the current time and sets alarm.	Arduino UNO, RTC Module, Buzzer	SDG 4: Quality Education	7–9
163	Voice-Controlled Home Automation	Controls home appliances through voice commands.	Arduino UNO, Voice Module, Relay	SDG 7: Affordable and Clean Energy	9–12
164	Heart Rate Monitoring System	Monitors heart rate and alerts if it goes beyond a set limit.	Arduino UNO, Pulse Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
165	Smart Watch	Displays time and monitors various health parameters.	Arduino UNO, RTC Module, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	10–12
166	Automated Garden Irrigation System	Waters the garden automatically based on moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	8–11
167	Virtual Reality Controller	Controls VR movements using sensors.	Arduino UNO, Gyroscope, Accelerometer	SDG 9: Industry, Innovation and Infrastructure	10–12
168	Automatic Plant Watering System	Waters plants automatically based on soil moisture.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 2: Zero Hunger	9–12
169	Water Quality Monitoring System	Monitors water quality parameters like pH, turbidity, and temperature.	Arduino UNO, pH Sensor, Turbidity Sensor, Temperature Sensor	SDG 6: Clean Water and Sanitation	9–12
170	Digital Alarm System	Sounds an alarm after a specified time or event.	Arduino UNO, RTC Module, Buzzer	SDG 4: Quality Education	7–9
171	E-Book Reader	Reads and displays e-books on an LCD screen.	Arduino UNO, SD Card Module, LCD	SDG 4: Quality Education	9–12
172	Bluetooth-Controlled Car	Controls a toy car using Bluetooth from a smartphone.	Arduino UNO, Bluetooth Module, Motor Driver, Toy Car	SDG 9: Industry, Innovation and Infrastructure	7–10
173	Arduino-Powered Drone	Controls a drone's flight using an Arduino.	Arduino UNO, Motors, ESCs, Gyroscope, Propellers	SDG 9: Industry, Innovation and Infrastructure	9–12
174	Smart Bicycle Lock	Locks and unlocks the bicycle with a smartphone or key.	Arduino UNO, Bluetooth Module, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
175	Smart Traffic Management System	Manages traffic flow using sensors and smart signaling.	Arduino UNO, Ultrasonic Sensors, Servo Motors	SDG 11: Sustainable Cities and Communities	9–12
176	Water Tank Level Indicator	Monitors water level and alerts when the tank is full or empty.	Arduino UNO, Ultrasonic Sensor, Buzzer	SDG 6: Clean Water and Sanitation	8–12

177	Automatic Door Lock System	Locks and unlocks a door based on RFID tag detection.	Arduino UNO, RFID Module, Servo Motor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
178	Smart Home Light Control	Controls home lighting based on ambient light conditions.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	8–12
179	Digital Dice	Displays a random number on an LED screen like a dice roll.	Arduino UNO, Push Button, LED Matrix	SDG 4: Quality Education	6–9
180	Smart Garbage Bin	Detects the fullness of a garbage bin and alerts for collection.	Arduino UNO, Ultrasonic Sensor, GSM Module	SDG 11: Sustainable Cities and Communities	9–12
181	Interactive Quiz Game	An interactive quiz game with a display and buzzer for correct/incorrect answers.	Arduino UNO, LED, Push Buttons, Buzzer	SDG 4: Quality Education	6–9
182	Mood Sensing LED	Changes LED colors based on environmental or mood sensing input.	Arduino UNO, Color Sensor, RGB LED	SDG 3: Good Health and Well-being	8–12
183	Automated Blinds	Automatically adjusts the blinds based on the intensity of sunlight.	Arduino UNO, LDR, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
184	Automatic Fan Control	Fan speed controlled based on the temperature of the room.	Arduino UNO, DHT11, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
185	Digital Stopwatch	A digital stopwatch with start/stop functionality.	Arduino UNO, LCD, Push Button	SDG 4: Quality Education	6–9
186	Smart Parking System	A system to detect available parking spaces and guide vehicles.	Arduino UNO, Ultrasonic Sensors, Servo Motors, LCD	SDG 11: Sustainable Cities and Communities	9–12
187	Bluetooth Music Player	Plays music using Bluetooth from a mobile phone to speakers.	Arduino UNO, Bluetooth Module, Speaker	SDG 9: Industry, Innovation and Infrastructure	9–12
188	Fire Detection System	Detects fire using a flame sensor and alerts through a buzzer.	Arduino UNO, Flame Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
189	Automated Fish Feeder	Feeds fish in an aquarium at scheduled times automatically.	Arduino UNO, Servo Motor, RTC Module	SDG 14: Life Below Water	8–12

190	Digital Speedometer	Displays speed based on a rotating wheel or object.	Arduino UNO, Rotary Encoder, LCD	SDG 9: Industry, Innovation and Infrastructure	8–12
191	Arduino-Powered Weather Station	Measures and displays weather conditions like temperature and humidity.	Arduino UNO, DHT11, LCD	SDG 13: Climate Action	9–12
192	Smart Watering System	Waters plants automatically when soil moisture is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	8–12
193	Voice-Controlled Light System	Controls home lights with voice commands via a smartphone.	Arduino UNO, Bluetooth Module, Relay	SDG 7: Affordable and Clean Energy	9–12
194	Smart Mirror	Displays time, weather, and news on a mirror surface.	Arduino UNO, LCD, Mirror, Camera	SDG 9: Industry, Innovation and Infrastructure	9–12
195	Smart Soil Moisture Monitoring	Measures soil moisture and alerts when plants need watering.	Arduino UNO, Soil Moisture Sensor, Buzzer	SDG 15: Life on Land	8–12
196	Light Level Indicator	Indicates light intensity with LED brightness.	Arduino UNO, LDR, LED	SDG 7: Affordable and Clean Energy	6–9
197	Automated Plant Light	Controls artificial light for indoor plants based on ambient light.	Arduino UNO, LDR, Relay, LED	SDG 15: Life on Land	9–12
198	Digital Thermostat	Controls room temperature by adjusting a heater or fan.	Arduino UNO, DHT11, Relay, Heater, Fan	SDG 7: Affordable and Clean Energy	9–12
199	RFID-Based Library System	Manages library books using RFID tags for check-in/check-out.	Arduino UNO, RFID Module, Servo Motor	SDG 4: Quality Education	9–12
200	Arduino-Powered Smart Watch	Displays time, heart rate, and steps on a small wristwatch.	Arduino UNO, RTC Module, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	10–12
201	Smart Helmet	Detects and alerts if a rider falls or is in danger.	Arduino UNO, Accelerometer, GPS, Buzzer	SDG 3: Good Health and Well-being	10–12
202	Smart Air Quality Monitoring	Measures air quality and alerts if pollution levels are high.	Arduino UNO, MQ-135 Gas Sensor, LCD	SDG 11: Sustainable Cities and Communities	9–12
203	Smart Shoe	Tracks steps and monitors walking distance.	Arduino UNO, Accelerometer, Bluetooth Module, Step Sensor	SDG 3: Good Health and Well-being	9–12

204	Smart Irrigation System	Automatically irrigates plants when soil moisture is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	8–12
205	Temperature Controlled Fan	Turns on/off fan based on the room temperature.	Arduino UNO, DHT11, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
206	Touchless Water Dispenser	Dispenses water automatically using a sensor.	Arduino UNO, Ultrasonic Sensor, Solenoid Valve	SDG 6: Clean Water and Sanitation	8–12
207	Arduino-Powered Boat	Controls a small boat using an Arduino-based system.	Arduino UNO, Motors, Servo, Remote Control	SDG 14: Life Below Water	9–12
208	Smart Wristband	Tracks activity, heart rate, and notifies user for important events.	Arduino UNO, Pulse Sensor, Accelerometer, Bluetooth	SDG 3: Good Health and Well-being	10–12
209	Smart Traffic Light Control	Controls traffic light sequences based on traffic conditions.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
210	Noise Detection System	Detects noise levels in an environment and alerts if it exceeds a threshold.	Arduino UNO, Microphone, Buzzer	SDG 3: Good Health and Well-being	9–12
211	Wireless Temperature Monitoring	Monitors temperature and sends data wirelessly to a smartphone or computer.	Arduino UNO, Wi-Fi Module, Temperature Sensor	SDG 13: Climate Action	9–12
212	Arduino-Powered Calculator	A simple calculator built with Arduino and a keypad interface.	Arduino UNO, Keypad, LCD	SDG 4: Quality Education	6–9
213	Smart Energy Meter	Measures and displays energy consumption of appliances.	Arduino UNO, Energy Meter Module, LCD	SDG 7: Affordable and Clean Energy	9–12
214	Automated Light Control System	Controls home lighting based on motion detection.	Arduino UNO, PIR Motion Sensor, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
215	Arduino-Powered Weather Forecast	Displays current weather conditions based on a forecast API.	Arduino UNO, LCD, Wi-Fi Module	SDG 13: Climate Action	9–12
216	Voice-Controlled Robot	Controls a robot using voice commands via Bluetooth.	Arduino UNO, Bluetooth Module, Motor Driver, Servo Motors	SDG 9: Industry, Innovation and Infrastructure	9–12

217	Digital Dice Game	Implements a dice game with digital display and button input.	Arduino UNO, LCD, Push Buttons	SDG 4: Quality Education	6–9
218	Digital Hourglass	Displays a countdown timer using an LED matrix like an hourglass.	Arduino UNO, LED Matrix, Push Button	SDG 4: Quality Education	7–9
219	Arduino-Controlled Cat Feeder	Dispenses food for a pet automatically at scheduled times.	Arduino UNO, Servo Motor, RTC Module, Pet Food Dispenser	SDG 2: Zero Hunger	9–12
220	Smart Shoe Insole	Detects pressure and tracks footstep patterns for analysis.	Arduino UNO, Pressure Sensors, Bluetooth Module	SDG 3: Good Health and Well-being	9–12
221	Bluetooth-Controlled LED	Controls the brightness and color of an LED via Bluetooth.	Arduino UNO, Bluetooth Module, RGB LED	SDG 9: Industry, Innovation and Infrastructure	8–12
222	Smart Fridge Monitor	Monitors and alerts when the fridge temperature goes out of a safe range.	Arduino UNO, Temperature Sensor, Wi-Fi Module	SDG 12: Responsible Consumption and Production	9–12
223	GPS-Based Navigation System	Displays location data from a GPS module on an LCD.	Arduino UNO, GPS Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
224	Digital Pulse Oximeter	Measures oxygen saturation in the blood.	Arduino UNO, Pulse Oximeter Sensor, LCD	SDG 3: Good Health and Well-being	10–12
225	Arduino-Controlled Camera	Controls a camera to take pictures automatically based on sensor input.	Arduino UNO, Camera Module, Motion Sensor	SDG 9: Industry, Innovation and Infrastructure	9–12
226	Automatic Street Light Control	Automatically switches street lights on or off based on ambient light levels.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	8–12
227	Voice-Controlled Home Automation	Controls home appliances with voice commands through a mobile app.	Arduino UNO, Bluetooth Module, Relay, Home Appliances	SDG 9: Industry, Innovation and Infrastructure	9–12
228	Smart Garbage Collection System	Tracks the fullness of trash bins and alerts when collection is needed.	Arduino UNO, Ultrasonic Sensor, GSM Module, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
229	Arduino-based Home Security System	Monitors doors and windows for unauthorized entry and sends alerts.	Arduino UNO, PIR Sensor, Magnetic Door Switch, GSM Module	SDG 16: Peace, Justice, and Strong Institutions	9–12

230	Smart Mirror with Facial Recognition	Displays time, weather, and news and uses facial recognition for login.	Arduino UNO, Camera, LCD, Servo Motor	SDG 9: Industry, Innovation and Infrastructure	9–12
231	Heart Rate Monitoring System	Measures and displays the heart rate using a pulse sensor.	Arduino UNO, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	9–12
232	Arduino-Powered Weather Station 2.0	Monitors and displays temperature, humidity, and pressure.	Arduino UNO, DHT22, BMP180, LCD	SDG 13: Climate Action	9–12
233	Home Automation with IR Remote	Controls lights, fans, and other devices using an IR remote.	Arduino UNO, IR Receiver, Relay, Appliances	SDG 9: Industry, Innovation and Infrastructure	9–12
234	Automatic Plant Watering System	Automatically waters plants when soil moisture is below a threshold.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	8–12
235	Arduino-Controlled Digital Lock	Unlocks a door using a password entered through a keypad.	Arduino UNO, Keypad, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
236	Automatic Pet Feeder	Dispenses pet food at scheduled times.	Arduino UNO, Servo Motor, RTC Module, Pet Food Dispenser	SDG 2: Zero Hunger	9–12
237	Arduino-based Digital Compass	Displays directions using a digital compass module.	Arduino UNO, HMC5883L, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
238	Smart Smoke Detection System	Detects smoke and alerts users with an alarm or message.	Arduino UNO, MQ-2 Smoke Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
239	Digital Speed Radar	Measures the speed of moving objects and displays the value.	Arduino UNO, Radar Sensor, LCD	SDG 9: Industry, Innovation and Infrastructure	10–12
240	IoT-based Smart Parking System	Tracks and displays available parking spaces using IoT.	Arduino UNO, Ultrasonic Sensors, Wi-Fi Module, LCD	SDG 11: Sustainable Cities and Communities	9–12
241	Solar-Powered Light System	Powers a lighting system using solar energy and a battery.	Arduino UNO, Solar Panel, Battery, LED	SDG 7: Affordable and Clean Energy	9–12
242	Arduino-Powered Digital Clock	Displays current time using a digital clock module.	Arduino UNO, RTC Module, LCD	SDG 4: Quality Education	6–9
243	Remote-Controlled Car	Controls a small car with an RF remote.	Arduino UNO, RF Module, Motor Driver, Motors	SDG 9: Industry, Innovation and Infrastructure	9–12
244	Arduino-Based Speedometer	Measures speed based on wheel rotation.	Arduino UNO, Rotary Encoder, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12

245	Digital Weather Forecast System	Displays weather forecasts using internet data and an LCD.	Arduino UNO, Wi-Fi Module, LCD	SDG 13: Climate Action	9–12
246	Arduino-Controlled Robot Arm	Controls a robotic arm with precise movements.	Arduino UNO, Servo Motors, Joystick	SDG 9: Industry, Innovation and Infrastructure	9–12
247	Bluetooth-Controlled Car	Controls a car using Bluetooth commands from a smartphone.	Arduino UNO, Bluetooth Module, Motor Driver, Motors	SDG 9: Industry, Innovation and Infrastructure	9–12
248	Digital Pet Tracker	Tracks the location of a pet using GPS coordinates.	Arduino UNO, GPS Module, GSM Module	SDG 3: Good Health and Well-being	9–12
249	Arduino-Powered Smart Fridge	Monitors food items and alerts when stocks are low or items are expired.	Arduino UNO, RFID, LCD, Wi-Fi Module	SDG 12: Responsible Consumption and Production	9–12
250	Arduino-Based Digital Lock	Controls access to a secure area with a password or RFID tag.	Arduino UNO, RFID Module, Servo Motor, Keypad	SDG 16: Peace, Justice, and Strong Institutions	9–12
251	Automated Plant Growth Monitoring	Monitors plant growth and environmental conditions like light and humidity.	Arduino UNO, DHT22, Light Sensor, Soil Moisture Sensor, LCD	SDG 15: Life on Land	9–12
252	IoT-based Weather Station	Collects and displays temperature, humidity, and pressure data online.	Arduino UNO, DHT11, BMP180, Wi-Fi Module, LCD	SDG 13: Climate Action	9–12
253	Arduino-Powered Smart Lock	Unlocks doors based on fingerprint or RFID recognition.	Arduino UNO, Fingerprint Sensor, RFID Module, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
254	Solar-Powered Arduino Car	Powers a small car with solar energy.	Arduino UNO, Solar Panel, Motor Driver, Motors	SDG 7: Affordable and Clean Energy	9–12
255	Smart Greenhouse	Automatically controls temperature and humidity for optimal plant growth.	Arduino UNO, DHT22, Relay, Water Pump, Humidity Sensor	SDG 2: Zero Hunger, SDG 15: Life on Land	9–12
256	Home Automation with Voice Control	Controls home devices using voice commands via a smartphone app.	Arduino UNO, Bluetooth Module, Relay, Voice Recognition Module	SDG 9: Industry, Innovation and Infrastructure	9–12
257	Automatic Water Pump System	Automatically waters a garden based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
258	Smart Water Quality Monitoring	Monitors water quality parameters like pH and turbidity.	Arduino UNO, pH Sensor, Turbidity Sensor, LCD	SDG 6: Clean Water and Sanitation	9–12

259	Arduino-Based Security Camera	Uses a camera to monitor and detect motion for security purposes.	Arduino UNO, Camera, PIR Sensor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	10–12
260	Smart Energy Saver	Automatically turns off devices that consume unnecessary energy.	Arduino UNO, Relay, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12
261	Smart Bicycle Lock	Unlocks a bicycle lock using Bluetooth.	Arduino UNO, Bluetooth Module, Servo Motor	SDG 9: Industry, Innovation and Infrastructure	9–12
262	Automatic Fish Feeder	Dispenses fish food at set intervals automatically.	Arduino UNO, Servo Motor, RTC Module, Fish Food Dispenser	SDG 14: Life Below Water	9–12
263	IoT-Based Smart Lighting	Controls home lighting system remotely using an app.	Arduino UNO, Wi-Fi Module, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
264	Digital Photo Frame	Displays pictures in a rotating sequence using a memory card.	Arduino UNO, LCD, SD Card Module	SDG 9: Industry, Innovation and Infrastructure	9–12
265	Arduino-Powered Smart Mirror	Displays time, date, weather, and calendar events on a smart mirror.	Arduino UNO, LCD, Camera, Frame, Sensors	SDG 9: Industry, Innovation and Infrastructure	9–12
266	Automated Door Lock System	Locks and unlocks doors based on RFID tag or password input.	Arduino UNO, RFID Module, Keypad, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
267	Smart Glove	A wearable glove that interacts with a computer or device using sensors.	Arduino UNO, Flex Sensors, Bluetooth Module	SDG 9: Industry, Innovation and Infrastructure	10–12
268	Digital Pet Tracker	Tracks the location of a pet using GPS coordinates.	Arduino UNO, GPS Module, GSM Module	SDG 3: Good Health and Well-being	9–12
269	Smart Bike Helmet	Provides real-time information on speed, direction, and heart rate.	Arduino UNO, Accelerometer, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	9–12
270	Home Automation System with PIR	Controls lights and appliances based on motion detection.	Arduino UNO, PIR Sensor, Relay, LED	SDG 9: Industry, Innovation and Infrastructure	9–12
271	Traffic Light System	Models a traffic light system that changes based on vehicle detection.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
272	Weather Forecast Display	Displays live weather updates from an online source.	Arduino UNO, Wi-Fi Module, LCD	SDG 13: Climate Action	9–12

273	Home Automation System with App	Controls home appliances via a smartphone app.	Arduino UNO, Bluetooth Module, Relay	SDG 9: Industry, Innovation and Infrastructure	9–12
274	Bluetooth-Controlled Home System	Controls home appliances using Bluetooth commands from a smartphone.	Arduino UNO, Bluetooth Module, Relay	SDG 9: Industry, Innovation and Infrastructure	9–12
275	Sound Level Detector	Detects sound levels and triggers an action if a preset threshold is exceeded.	Arduino UNO, Microphone, Buzzer	SDG 3: Good Health and Well-being	9–12
276	Light-Activated Fan	Turns on a fan when ambient light levels exceed a threshold.	Arduino UNO, LDR, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
277	Smart Dustbin	Automatically opens a dustbin lid when it detects an object approaching.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
278	Plant Moisture Detection System	Measures soil moisture and alerts when plants need watering.	Arduino UNO, Soil Moisture Sensor, Buzzer	SDG 6: Clean Water and Sanitation	9–12
279	Smart Traffic Light with Sensors	Adjusts traffic light timing based on traffic flow.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
280	Arduino-Based Camera Surveillance	Creates a camera-based security system that detects motion.	Arduino UNO, Camera, PIR Sensor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	10–12
281	Bluetooth-Controlled Fan	Controls a fan using a smartphone via Bluetooth.	Arduino UNO, Bluetooth Module, Relay, Fan	SDG 9: Industry, Innovation and Infrastructure	9–12
282	Smart Lock System	Unlocks a door using a smartphone app or a pin.	Arduino UNO, Keypad, Servo Motor, Bluetooth Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
283	Human Detection System	Detects and tracks human presence in a specific area.	Arduino UNO, PIR Sensor, Servo Motor	SDG 9: Industry, Innovation and Infrastructure	9–12
284	Solar-Powered Arduino Weather Station	Creates a weather station powered by solar energy.	Arduino UNO, Solar Panel, DHT11, BMP180, LCD	SDG 7: Affordable and Clean Energy	9–12
285	Smart Health Monitoring System	Tracks heart rate and other vital stats and alerts users if needed.	Arduino UNO, Pulse Sensor, LCD, Buzzer	SDG 3: Good Health and Well-being	9–12
286	Automated Fish Tank Filter	Controls a filtration system in an aquarium based on water quality.	Arduino UNO, pH Sensor, Water Pump, Relay	SDG 14: Life Below Water	9–12

287	Automated Greenhouse Climate Control	Monitors and adjusts temperature and humidity in a greenhouse.	Arduino UNO, DHT22, Relay, Fan, Water Pump	SDG 2: Zero Hunger, SDG 15: Life on Land	9–12
288	Home Appliance Energy Monitoring	Monitors energy usage of home appliances and provides feedback.	Arduino UNO, Current Sensor, LCD, Relay	SDG 7: Affordable and Clean Energy	9–12
289	Smart Pet Door	Opens and closes a pet door automatically based on RFID or motion.	Arduino UNO, RFID Module, PIR Sensor, Servo Motor	SDG 3: Good Health and Well-being	9–12
290	Voice-Controlled Robot	A robot that is controlled by voice commands.	Arduino UNO, Bluetooth Module, Motors, Servo	SDG 9: Industry, Innovation and Infrastructure	9–12
291	Arduino-based Morse Code Transmitter	Sends messages in Morse code using an LED or sound.	Arduino UNO, LED, Buzzer, Push Buttons	SDG 4: Quality Education	6–9
292	Arduino-Based Fingerprint Scanner	Scans fingerprints for identification purposes.	Arduino UNO, Fingerprint Sensor, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
293	Smart Fan System	A fan that adjusts its speed based on room temperature.	Arduino UNO, DHT22, Relay, Fan	SDG 13: Climate Action	9–12
294	Arduino-Powered Home Heating System	Automatically controls the heating system in response to temperature.	Arduino UNO, Temperature Sensor, Relay, Heater	SDG 7: Affordable and Clean Energy	9–12
295	Smart Air Quality Monitor	Detects air quality levels and provides alerts if pollution is high.	Arduino UNO, MQ-7 Gas Sensor, LCD, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
296	Bluetooth-Based Smart Thermostat	Controls the temperature of a room via Bluetooth commands.	Arduino UNO, Bluetooth Module, Temperature Sensor, Relay	SDG 13: Climate Action	9–12
297	Arduino-Based Smart Refrigerator	Monitors and notifies the user when food inside the refrigerator expires.	Arduino UNO, RFID Module, LCD	SDG 12: Responsible Consumption and Production	9–12
298	Autonomous Vehicle System	Builds a small autonomous car that can navigate an obstacle course.	Arduino UNO, Ultrasonic Sensors, Motors, Servo Motor	SDG 9: Industry, Innovation and Infrastructure	9–12
299	Arduino-Powered Light Dimmer	Controls the brightness of lights using an analog signal.	Arduino UNO, Potentiometer, Relay, Light Bulb	SDG 7: Affordable and Clean Energy	9–12
300	Arduino-Based Attendance System	Tracks attendance via RFID tags.	Arduino UNO, RFID Module, LCD	SDG 4: Quality Education	9–12

301	IoT-Based Smart Home System	Controls home appliances remotely using IoT.	Arduino UNO, Wi-Fi Module, Relay, Smartphone	SDG 9: Industry, Innovation and Infrastructure	9–12
302	Voice-Controlled Home Automation	Uses voice commands to control lights and appliances.	Arduino UNO, Bluetooth Module, Microphone, Relay	SDG 9: Industry, Innovation and Infrastructure	9–12
303	Remote-Controlled Car	Builds a car controlled via a remote control using an RF module.	Arduino UNO, RF Module, Motors, Servo	SDG 9: Industry, Innovation and Infrastructure	9–12
304	Automated Watering System	Waters plants based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
305	Smart Mirror	Displays useful information like time, weather, and calendar events.	Arduino UNO, LCD, Camera, Frame, Sensors	SDG 9: Industry, Innovation and Infrastructure	9–12
306	Automated Blinds	Controls window blinds based on ambient light or time of day.	Arduino UNO, Light Sensor, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
307	Bluetooth-Controlled Car	Creates a small car that can be controlled with a smartphone via Bluetooth.	Arduino UNO, Bluetooth Module, Motors	SDG 9: Industry, Innovation and Infrastructure	9–12
308	Sound-Based Light System	Turns lights on or off based on sound detection.	Arduino UNO, Microphone, Relay, LED	SDG 11: Sustainable Cities and Communities	9–12
309	Smart Traffic Management System	Manages traffic signals based on vehicle density.	Arduino UNO, Ultrasonic Sensors, Servo Motors	SDG 11: Sustainable Cities and Communities	9–12
310	Arduino-based Security Alarm	Detects intruders and triggers an alarm system.	Arduino UNO, PIR Sensor, Buzzer, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
311	Gesture-Controlled Robot	Moves a robot based on hand gestures.	Arduino UNO, Accelerometer, Motors, Servo	SDG 9: Industry, Innovation and Infrastructure	9–12
312	Solar-Powered Phone Charger	Charges a phone using solar energy.	Arduino UNO, Solar Panel, Voltage Regulator, USB Cable	SDG 7: Affordable and Clean Energy	9–12
313	Bluetooth-Controlled Smart Lock	Unlocks doors via Bluetooth using a smartphone.	Arduino UNO, Bluetooth Module, Servo Motor, Keypad	SDG 16: Peace, Justice, and Strong Institutions	9–12
314	Arduino-Powered Smart Scale	Weights objects and displays the weight on an LCD.	Arduino UNO, Load Cell, LCD, Amplifier	SDG 9: Industry, Innovation and Infrastructure	9–12
315	Home Energy Monitoring System	Monitors energy consumption in a home.	Arduino UNO, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12

316	Temperature and Humidity Monitor	Measures room temperature and humidity levels.	Arduino UNO, DHT22, LCD	SDG 13: Climate Action	9–12
317	Heart Rate Monitor	Measures heart rate and displays it on an LCD.	Arduino UNO, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	9–12
318	Arduino-Based Plant Growth Tracker	Tracks the growth of plants over time.	Arduino UNO, Light Sensor, Soil Moisture Sensor, Camera	SDG 15: Life on Land	9–12
319	Smart Home Security System	Monitors entry points and detects motion to alert users.	Arduino UNO, PIR Sensor, Camera, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	10–12
320	Weather Station with Forecast	Displays live weather updates and forecasts.	Arduino UNO, Wi-Fi Module, DHT11, LCD	SDG 13: Climate Action	9–12
321	Voice-Controlled Fan	Controls a fan using voice commands.	Arduino UNO, Microphone, Bluetooth Module, Relay	SDG 7: Affordable and Clean Energy	9–12
322	Arduino-Powered Digital Clock	Creates a digital clock with real-time updates.	Arduino UNO, RTC Module, LED Display	SDG 4: Quality Education	6–9
323	Smart Shoe Step Counter	Counts the number of steps taken in a day.	Arduino UNO, Accelerometer, LCD	SDG 3: Good Health and Well-being	9–12
324	Automated Window Cleaning System	Cleans windows automatically using sensors and motors.	Arduino UNO, Ultrasonic Sensors, Motors, Servo	SDG 9: Industry, Innovation and Infrastructure	9–12
325	Smart Garden Lighting	Controls garden lights based on dusk or motion detection.	Arduino UNO, Light Sensor, PIR Sensor, LED	SDG 11: Sustainable Cities and Communities	9–12
326	Arduino-Powered Electric Scooter	Controls the speed and direction of an electric scooter.	Arduino UNO, DC Motors, Motor Driver, Battery, Speed Sensor	SDG 9: Industry, Innovation and Infrastructure	9–12
327	Smart Home Automation System	Automates lighting, temperature, and security in a home environment.	Arduino UNO, Relay, DHT22, PIR Sensor, Bluetooth Module	SDG 11: Sustainable Cities and Communities	9–12
328	Arduino-Powered Ultrasonic Cleaner	Uses ultrasonic waves to clean small objects.	Arduino UNO, Ultrasonic Transducer, Motor, Power Supply	SDG 9: Industry, Innovation and Infrastructure	9–12
329	Smart Mirror with Facial Recognition	Displays personalized information and recognizes faces.	Arduino UNO, Camera Module, LCD, Python (for processing)	SDG 9: Industry, Innovation and Infrastructure	9–12
330	Arduino-Based Anti-Theft System	Alerts the user if an object is moved or stolen.	Arduino UNO, PIR Sensor, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12

331	Digital Piano Using Arduino	Creates a digital piano using buttons or capacitive touch sensors.	Arduino UNO, Piezo Buzzer, Push Buttons, Wires	SDG 4: Quality Education	6–9
332	Smart Waste Bin with IoT	Detects the level of waste and notifies the collector through IoT.	Arduino UNO, Ultrasonic Sensor, Wi-Fi Module, Servo Motor	SDG 12: Responsible Consumption and Production	9–12
333	Arduino-Powered Light Therapy Lamp	Adjusts the intensity and color of light based on the time of day.	Arduino UNO, RGB LED, RTC Module, Relay	SDG 3: Good Health and Well-being	9–12
334	Voice-Activated Lights	Controls the lights using voice commands.	Arduino UNO, Bluetooth Module, Microphone, Relay	SDG 7: Affordable and Clean Energy	9–12
335	Smart Temperature Control System	Automatically adjusts the temperature of a room using a thermostat.	Arduino UNO, DHT11, Relay, Fan, Heater	SDG 13: Climate Action	9–12
336	Gesture-Controlled Car	Controls a small vehicle's movement using hand gestures.	Arduino UNO, Accelerometer, Servo Motor, DC Motors	SDG 9: Industry, Innovation and Infrastructure	9–12
337	Arduino-Based RFID Reader	Scans and identifies RFID tags for various applications.	Arduino UNO, RFID Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
338	Smart Clock with Temperature Display	Displays time and room temperature on a digital display.	Arduino UNO, RTC Module, DHT11, LCD	SDG 13: Climate Action	6–9
339	Bluetooth-Based Smart Fan Control	Controls a fan's speed and direction using a smartphone app.	Arduino UNO, Bluetooth Module, Fan, Relay	SDG 7: Affordable and Clean Energy	9–12
340	Automatic Irrigation System	Waters plants automatically based on soil moisture and temperature.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 6: Clean Water and Sanitation	9–12
341	Arduino-Powered Smart Door	Unlocks and locks a door using RFID or Bluetooth.	Arduino UNO, RFID Module, Servo Motor, Bluetooth Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
342	Arduino-Based Distance Measurer	Measures distance using ultrasonic sensors and displays the result.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
343	Automated Coffee Maker	Makes coffee automatically when the user presses a button.	Arduino UNO, Relay, Coffee Machine	SDG 12: Responsible Consumption and Production	9–12
344	Arduino-Powered Weather Balloon	Collects and transmits atmospheric data like temperature and pressure.	Arduino UNO, BMP180, DHT11, GPS Module, Radio Module	SDG 13: Climate Action	9–12

345	Smart Plant Pot	Monitors the health of plants and notifies the user when action is needed.	Arduino UNO, Soil Moisture Sensor, DHT22, Buzzer	SDG 2: Zero Hunger, SDG 15: Life on Land	9–12
346	Digital Speedometer for Vehicle	Measures and displays a vehicle's speed using a GPS module.	Arduino UNO, GPS Module, LCD, Speed Sensor	SDG 9: Industry, Innovation and Infrastructure	9–12
347	Home Automation with IR Remote	Controls home appliances using an IR remote.	Arduino UNO, IR Receiver, Relay, IR Remote	SDG 7: Affordable and Clean Energy	9–12
348	Automated Light Control System	Turns on/off lights based on ambient light conditions.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
349	Smart Wearable Fitness Tracker	Monitors physical activity and vital statistics like heart rate.	Arduino UNO, Pulse Sensor, Accelerometer, LCD	SDG 3: Good Health and Well-being	9–12
350	Arduino-Based Electric Circuit Tester	Tests electrical components and displays results.	Arduino UNO, Multimeter, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
351	Arduino-Based Smart Bike Lock	Unlocks a bike lock with a smartphone app or RFID tag.	Arduino UNO, Bluetooth Module, RFID Module, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
352	Smart Light Control System	Controls the intensity of room lighting based on the time of day.	Arduino UNO, Light Sensor, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
353	Automated Fish Feeder	Feeds fish at specific intervals.	Arduino UNO, Servo Motor, RTC Module, Fish Food Dispenser	SDG 12: Responsible Consumption and Production	9–12
354	Arduino-Based Gas Detection System	Detects harmful gases like CO2 and notifies the user.	Arduino UNO, Gas Sensor, Buzzer, LCD	SDG 3: Good Health and Well-being	9–12
355	Automated Plant Grow Light	Controls grow lights based on time or plant needs.	Arduino UNO, Light Sensor, Relay, LED	SDG 15: Life on Land	9–12
356	Arduino-Powered Smart Fan	Controls fan speed based on temperature and humidity.	Arduino UNO, DHT11, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
357	Smart Trash Bin	Automatically sorts trash into categories like recyclables or waste.	Arduino UNO, Servo Motor, Color Sensor, Camera	SDG 12: Responsible Consumption and Production	9–12
358	Smart Wallet	Detects if the wallet has been left behind and notifies the user.	Arduino UNO, Bluetooth Module, Buzzer	SDG 12: Responsible Consumption and Production	9–12

359	Arduino-Based Morse Code Machine	Transmits messages in Morse code using an LED.	Arduino UNO, LED, Push Buttons, Buzzer	SDG 4: Quality Education	6–9
360	Home Security System with Camera	Monitors home security and alerts the user when a breach occurs.	Arduino UNO, PIR Sensor, Camera Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
361	Arduino-Powered Smart Lock	Unlocks a door via fingerprint or RFID.	Arduino UNO, RFID Module, Servo Motor, Fingerprint Sensor	SDG 16: Peace, Justice, and Strong Institutions	9–12
362	Voice-Controlled Wheelchair	Moves a wheelchair using voice commands.	Arduino UNO, Bluetooth Module, Motor Driver, Microphone	SDG 3: Good Health and Well-being	9–12
363	Real-Time Location Tracker	Tracks the real-time location of a person or vehicle.	Arduino UNO, GPS Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
364	Arduino-Powered Soil Health Monitor	Monitors soil pH and moisture levels for optimal plant growth.	Arduino UNO, Soil pH Sensor, Soil Moisture Sensor, LCD	SDG 15: Life on Land	9–12
365	Solar-Powered Fan System	Runs a fan on solar energy, ensuring sustainability.	Arduino UNO, Solar Panel, Fan, Relay	SDG 7: Affordable and Clean Energy	9–12
366	Automated Pet Door	Opens or closes a pet door based on animal proximity.	Arduino UNO, RFID Module, Servo Motor, Ultrasonic Sensor	SDG 11: Sustainable Cities and Communities	9–12
367	Digital Heart Rate Monitor	Measures and displays heart rate on an LCD.	Arduino UNO, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	9–12
368	Smart Mirror with IoT Integration	Displays personalized information like weather and calendar events.	Arduino UNO, Wi-Fi Module, Camera Module, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
369	Arduino-Based Smart Scale	Measures weight and displays it digitally.	Arduino UNO, Load Cell, LCD, Amplifier	SDG 9: Industry, Innovation and Infrastructure	9–12
370	Arduino-Powered Home Theater System	Controls audio and visual equipment in a home theater.	Arduino UNO, IR Receiver, Relay, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
371	Arduino-Based Electronic Dice	Creates a random dice roll simulation using LEDs.	Arduino UNO, LEDs, Push Buttons	SDG 4: Quality Education	6–9
372	Automated Blinds Control	Controls blinds based on ambient light or time of day.	Arduino UNO, Light Sensor, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
373	Arduino-Powered Music Player	Plays music from an SD card and displays track information.	Arduino UNO, SD Card Module, Speaker, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12

374	Wireless Energy Meter	Monitors electricity consumption and wirelessly sends the data.	Arduino UNO, Current Sensor, Wi-Fi Module	SDG 7: Affordable and Clean Energy	9–12
375	Smart Bike Helmet with Indicators	Adds safety features to a bike helmet, including indicators and a light.	Arduino UNO, LED, Accelerometer, Battery	SDG 3: Good Health and Well-being	9–12
376	Arduino-Based Motion Detector	Detects movement in a given area and activates a light or alarm.	Arduino UNO, PIR Sensor, Relay, Buzzer, LED	SDG 11: Sustainable Cities and Communities	9–12
377	Automated Light Dimming System	Automatically dims the lights based on ambient light levels.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
378	Arduino-Based Heartbeat Monitor	Monitors and displays heart rate in real time.	Arduino UNO, Pulse Sensor, LCD	SDG 3: Good Health and Well-being	9–12
379	Smart Home Lighting System	Controls home lights using voice commands or mobile app.	Arduino UNO, Bluetooth Module, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
380	IoT-Based Weather Station	Measures temperature, humidity, and pressure and uploads to the cloud.	Arduino UNO, DHT22, BMP180, Wi-Fi Module	SDG 13: Climate Action	9–12
381	Arduino-Powered Water Level Sensor	Detects water levels in tanks and triggers an alert when full.	Arduino UNO, Ultrasonic Sensor, Buzzer, LCD	SDG 6: Clean Water and Sanitation	9–12
382	Automated Door Lock System	Locks and unlocks doors based on RFID or Bluetooth signals.	Arduino UNO, RFID Module, Servo Motor, Bluetooth Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
383	Digital Temperature Display	Displays real-time temperature readings on an LCD screen.	Arduino UNO, DHT11/DHT22, LCD	SDG 13: Climate Action	6–9
384	Arduino-Based Smart Thermostat	Controls room temperature using sensors and automated systems.	Arduino UNO, DHT11, Relay, Fan, Heater	SDG 7: Affordable and Clean Energy	9–12
385	Automated Pet Water Dispenser	Automatically dispenses water for pets at set intervals.	Arduino UNO, Water Pump, RTC Module, Relay	SDG 2: Zero Hunger, SDG 12: Responsible Consumption	9–12
386	Arduino-Based Health Monitoring System	Monitors key health metrics like pulse and body temperature.	Arduino UNO, Pulse Sensor, DHT11, LCD	SDG 3: Good Health and Well-being	9–12

387	Smart Solar Tracking System	Automatically adjusts solar panels for maximum sunlight exposure.	Arduino UNO, Servo Motors, Light Sensors	SDG 7: Affordable and Clean Energy	9–12
388	Remote-Controlled Car Using Arduino	Controls a car using a remote control and Arduino.	Arduino UNO, Motors, Servo Motors, RF Module	SDG 9: Industry, Innovation and Infrastructure	9–12
389	Arduino-Based Fuel Gauge	Measures the fuel level in a vehicle and displays it on a screen.	Arduino UNO, Fuel Sensor, LCD	SDG 9: Industry, Innovation and Infrastructure	9–12
390	Automated Greenhouse System	Controls temperature, humidity, and watering in a greenhouse environment.	Arduino UNO, DHT22, Relay, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger, SDG 13: Climate Action	9–12
391	Smart Doorbell System	Rings and captures video or takes pictures of visitors at the door.	Arduino UNO, Camera Module, Wi-Fi Module, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
392	Arduino-Based ECG Monitor	Measures and displays electrocardiogram signals.	Arduino UNO, ECG Sensor, LCD	SDG 3: Good Health and Well-being	9–12
393	Smart Bicycle Safety System	Alerts the user of obstacles and monitors bike speed.	Arduino UNO, Ultrasonic Sensor, Speed Sensor, LCD	SDG 3: Good Health and Well-being	9–12
394	Wireless Temperature Monitoring System	Monitors temperature wirelessly and sends data to a remote server.	Arduino UNO, Wi-Fi Module, DHT11, LCD	SDG 13: Climate Action	9–12
395	Arduino-Powered Smart Watch	A basic wearable watch that displays time and temperature.	Arduino UNO, OLED Display, RTC Module	SDG 3: Good Health and Well-being	9–12
396	Water Quality Monitoring System	Measures and monitors water quality parameters like pH and turbidity.	Arduino UNO, pH Sensor, Turbidity Sensor, LCD	SDG 6: Clean Water and Sanitation	9–12
397	Smart Bike with GPS Tracker	Tracks bike location and speed using GPS.	Arduino UNO, GPS Module, LCD, Speed Sensor	SDG 9: Industry, Innovation and Infrastructure	9–12
398	Smart Parking System	Detects available parking spots and displays them on a screen.	Arduino UNO, Ultrasonic Sensors, LCD	SDG 11: Sustainable Cities and Communities	9–12
399	Automated Seed Sowing Machine	Automatically plants seeds in soil at predetermined positions.	Arduino UNO, Servo Motors, Soil Sensor, Motors	SDG 2: Zero Hunger	9–12

400	Gesture-Controlled Robot	Controls robot movement using hand gestures.	Arduino UNO, Accelerometer, Servo Motors, Motors	SDG 9: Industry, Innovation and Infrastructure	9–12
401	Arduino-Powered Smart Door Lock	Locks/unlocks door with a password entered via keypad.	Arduino UNO, Keypad, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
402	Home Automation with Arduino	Controls appliances like lights and fans with a smartphone app.	Arduino UNO, Relay, Bluetooth Module, Smartphone App	SDG 7: Affordable and Clean Energy	9–12
403	Arduino-Based Smart Thermostat	Controls room temperature and sends data to a mobile app.	Arduino UNO, DHT11, Relay, LCD, Wi-Fi Module	SDG 7: Affordable and Clean Energy	9–12
404	Arduino-Powered Rainwater Harvesting	Automates rainwater collection and usage for irrigation.	Arduino UNO, Rainwater Sensor, Water Pump, Soil Moisture Sensor	SDG 6: Clean Water and Sanitation	9–12
405	Digital Clock with Alarm	Displays time and triggers an alarm at a set time.	Arduino UNO, RTC Module, Buzzer, LCD	SDG 4: Quality Education	6–9
406	Bluetooth-Controlled Robot Car	Controls a robot car using Bluetooth from a smartphone.	Arduino UNO, Bluetooth Module, Motors, Motor Driver	SDG 9: Industry, Innovation, and Infrastructure	9–12
407	Smart Blind System	Opens/closes blinds based on light intensity or set time.	Arduino UNO, Light Sensor, Servo Motor, Relay	SDG 7: Affordable and Clean Energy	9–12
408	Arduino-Powered Smart Refrigerator	Monitors temperature and humidity inside a refrigerator.	Arduino UNO, DHT11, Temperature Sensor, LCD	SDG 2: Zero Hunger	9–12
409	Automated Plant Watering System	Waters plants based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
410	Arduino-Based Intruder Alarm	Triggers an alarm when a motion is detected.	Arduino UNO, PIR Sensor, Buzzer, LED	SDG 16: Peace, Justice, and Strong Institutions	9–12
411	Solar-Powered Smart Light	Powers lights based on the time of day and available solar energy.	Arduino UNO, Solar Panel, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
412	Smart Traffic Light System	Controls traffic lights based on real-time traffic conditions.	Arduino UNO, Traffic Light, Ultrasonic Sensors, Servo Motors	SDG 11: Sustainable Cities and Communities	9–12
413	Digital Thermometer with LCD Display	Measures and displays temperature on an LCD screen.	Arduino UNO, LM35, LCD Display	SDG 13: Climate Action	6–9
414	Arduino-Based Smart Watering System	Waters garden based on the weather forecast (online).	Arduino UNO, Soil Moisture Sensor, Wi-Fi Module, Water Pump	SDG 6: Clean Water and Sanitation	9–12

415	Voice-Controlled Home Automation	Controls home appliances using voice commands.	Arduino UNO, Bluetooth Module, Microphone, Relay	SDG 7: Affordable and Clean Energy	9–12
416	Arduino-Powered Smart Gloves	Tracks hand gestures and provides feedback.	Arduino UNO, Flex Sensors, Servo Motors, Wireless Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
417	Soil Moisture-Based Irrigation System	Activates irrigation based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
418	Voice-Controlled Car Parking System	Uses voice commands to park and move a car.	Arduino UNO, Bluetooth Module, Servo Motors, Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
419	Arduino-Powered Automatic Fan	Automatically controls fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
420	Arduino-Based Smart Garbage Bin	Sorts garbage automatically into categories using sensors.	Arduino UNO, Servo Motor, Color Sensor, Buzzer	SDG 12: Responsible Consumption and Production	9–12
421	Automated Garden System	Automatically controls the garden's irrigation, lighting, and humidity.	Arduino UNO, Relay, Water Pump, Light Sensor, DHT11	SDG 15: Life on Land	9–12
422	Smart Home Energy Meter	Monitors and displays the energy consumption in a smart home.	Arduino UNO, Current Sensor, LCD, Wi-Fi Module	SDG 7: Affordable and Clean Energy	9–12
423	Arduino-Powered Sunlight Tracker	Tracks and adjusts solar panel position for optimal sunlight exposure.	Arduino UNO, Servo Motors, Light Sensor	SDG 7: Affordable and Clean Energy	9–12
424	Smart Warehouse System	Uses RFID to track items in a warehouse.	Arduino UNO, RFID Module, LCD, Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
425	Arduino-Based Wireless Doorbell	Wireless doorbell with a visual indicator on an LCD screen.	Arduino UNO, Wireless Module, LCD, Push Button	SDG 11: Sustainable Cities and Communities	9–12
426	Arduino-Based Speedometer	Measures the speed of a vehicle and displays it on an LCD screen.	Arduino UNO, Hall Effect Sensor, LCD	SDG 9: Industry, Innovation, and Infrastructure	9–12
427	Automated Night Lamp	Turns on/off a lamp automatically based on ambient light levels.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	6–9
428	Arduino-Powered Fire Alarm System	Detects smoke or fire and triggers an alarm.	Arduino UNO, Smoke Sensor, Buzzer, LED	SDG 11: Sustainable Cities and Communities	9–12

429	Gesture-Controlled Home Appliances	Controls home appliances like TV, lights, etc., using hand gestures.	Arduino UNO, Accelerometer, Relay, Servo Motor	SDG 9: Industry, Innovation, and Infrastructure	9–12
430	Arduino-Based Smart Helmet	Provides emergency alerts for bikers, including fall detection.	Arduino UNO, Accelerometer, GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
431	Automatic Street Lighting System	Controls street lights based on the time of day and ambient light.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
432	Arduino-Powered Automated Fan	Controls fan speed based on the ambient room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
433	Arduino-Based Soil pH Tester	Measures the pH level of the soil and displays it on an LCD screen.	Arduino UNO, pH Sensor, LCD	SDG 2: Zero Hunger, SDG 15: Life on Land	9–12
434	Smart Refrigerator Temperature Control	Maintains temperature inside the refrigerator based on set thresholds.	Arduino UNO, DHT11, Relay, Fan	SDG 2: Zero Hunger, SDG 3: Good Health and Well-being	9–12
435	Arduino-Powered Smart Glasses	Provides real-time information like time and temperature on the glasses.	Arduino UNO, OLED Display, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
436	Smart Air Quality Monitor	Monitors air quality parameters and alerts when pollution levels are high.	Arduino UNO, MQ-135 Sensor, LCD, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
437	Smart Smartwatch	Tracks basic fitness data like step count and heart rate.	Arduino UNO, Pulse Sensor, Accelerometer, OLED Display	SDG 3: Good Health and Well-being	9–12
438	Wi-Fi Controlled Fan	Controls a fan via a Wi-Fi network or mobile app.	Arduino UNO, Wi-Fi Module, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
439	Arduino-Based Traffic Monitor	Monitors and counts traffic vehicles in a given area.	Arduino UNO, IR Sensor, LCD, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
440	Smart Home Heating System	Automatically adjusts home temperature based on time and weather.	Arduino UNO, Relay, Temperature Sensor, Wi-Fi Module	SDG 7: Affordable and Clean Energy	9–12
441	Arduino-Based Home Security System	Monitors entryways and alerts when an intruder is detected.	Arduino UNO, PIR Sensor, Buzzer, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
442	IoT-Based Smart Mirror	Displays personalized information like time, weather, and news.	Arduino UNO, Touch Sensor, LCD, Wi-Fi Module	SDG 9: Industry, Innovation, and Infrastructure	9–12

443	Automated Fish Tank Monitoring	Monitors water parameters in a fish tank and sends alerts if needed.	Arduino UNO, pH Sensor, Temperature Sensor, Buzzer	SDG 14: Life Below Water	9–12
444	Arduino-Powered Solar Tracker	Tracks the position of the sun and adjusts solar panels accordingly.	Arduino UNO, Servo Motors, Light Sensors	SDG 7: Affordable and Clean Energy	9–12
445	RFID-Based Attendance System	Tracks attendance using RFID tags and displays the status.	Arduino UNO, RFID Reader, LCD, Servo Motor	SDG 4: Quality Education	9–12
446	Arduino-Powered Home Brew System	Automates the brewing process for home brewing enthusiasts.	Arduino UNO, Temperature Sensor, Relay, LCD	SDG 9: Industry, Innovation, and Infrastructure	9–12
447	Arduino-Based Drone Control	Controls the movement of a drone based on sensor inputs.	Arduino UNO, Motors, Servo Motors, Remote Control Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
448	Smart Plant Care System	Monitors the environment for plants and adjusts watering, light, and temperature.	Arduino UNO, Soil Moisture Sensor, Light Sensor, Fan	SDG 15: Life on Land	9–12
449	Smart Vacuum Cleaner	A simple vacuum cleaner that moves autonomously and cleans the floor.	Arduino UNO, Motors, IR Sensors, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
450	Digital Speedometer for Bicycle	Measures and displays the speed of a bicycle on a screen.	Arduino UNO, Hall Effect Sensor, LCD	SDG 9: Industry, Innovation, and Infrastructure	9–12
451	Arduino-Powered Solar Charge Controller	Manages the charging and discharging of a solar-powered battery system.	Arduino UNO, Solar Panel, Battery, Relay	SDG 7: Affordable and Clean Energy	9–12
452	Wi-Fi Controlled Smart Plant System	Controls plant care (watering, light) based on weather forecast and sensor data.	Arduino UNO, Soil Moisture Sensor, Light Sensor, Wi-Fi Module	SDG 15: Life on Land	9–12
453	Smart Bike Lock	A bike lock that unlocks via Bluetooth or proximity sensor.	Arduino UNO, Bluetooth Module, Servo Motor, Proximity Sensor	SDG 11: Sustainable Cities and Communities	9–12
454	Smart Pet Feeder	Automatically feeds pets at a set time.	Arduino UNO, Servo Motor, RTC Module, Motor Driver	SDG 12: Responsible Consumption and Production	9–12
455	Gesture-Controlled Robot Arm	Controls a robotic arm based on hand gestures.	Arduino UNO, Accelerometer, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12

456	IoT-Based Smart Dustbin	Monitors trash levels and notifies when the dustbin is full.	Arduino UNO, Ultrasonic Sensor, Wi-Fi Module, Buzzer	SDG 12: Responsible Consumption and Production	9–12
457	Smart Water Bottle	Tracks water intake and reminds you to drink based on a set schedule.	Arduino UNO, RTC Module, LCD, Buzzer	SDG 3: Good Health and Well-being	9–12
458	Arduino-Based Smart Air Conditioner	Controls the temperature based on ambient conditions.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
459	Home Automation with Voice Commands	Controls home devices through voice commands.	Arduino UNO, Microphone, Bluetooth Module, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
460	Autonomous Delivery Robot	An autonomous robot that delivers small packages in a specified area.	Arduino UNO, Motors, IR Sensors, Servo Motors, Ultrasonic Sensors	SDG 9: Industry, Innovation, and Infrastructure	9–12
461	Automated Weather Station	Monitors temperature, humidity, and atmospheric pressure.	Arduino UNO, DHT11, BMP180, LCD Display	SDG 13: Climate Action	9–12
462	Arduino-Powered Laser Security System	Uses lasers to detect intrusions in a given area.	Arduino UNO, Laser Diodes, Photoresistors, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
463	Smart Mirror with Face Recognition	Displays user-specific data based on facial recognition.	Arduino UNO, Camera Module, LCD	SDG 9: Industry, Innovation, and Infrastructure	9–12
464	Automated Fish Feeder System	Feeds fish at regular intervals automatically.	Arduino UNO, Servo Motor, RTC Module	SDG 14: Life Below Water	9–12
465	Arduino-Powered Weather Forecasting System	Predicts weather using sensors and shows data on an LCD.	Arduino UNO, DHT11, BMP180, LCD	SDG 13: Climate Action	9–12
466	IoT-Based Smart Farming System	Monitors crops, soil conditions, and weather and sends data remotely.	Arduino UNO, Soil Moisture Sensor, Wi-Fi Module, Temperature Sensor	SDG 2: Zero Hunger	9–12
467	Automatic Window Blinds Control	Opens/closes blinds based on sunlight intensity.	Arduino UNO, Light Sensor, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
468	Smart Garbage Collection System	Alerts municipal services when garbage bins are full.	Arduino UNO, Ultrasonic Sensor, GSM Module	SDG 11: Sustainable Cities and Communities	9–12
469	Digital Doorbell System	A doorbell that sends notifications to a smartphone when pressed.	Arduino UNO, Wi-Fi Module, Push Button, Buzzer	SDG 9: Industry, Innovation, and Infrastructure	9–12

470	Wireless Power Transmission System	Transmits power wirelessly for low-power devices.	Arduino UNO, Transmitter and Receiver Coil, Capacitors	SDG 7: Affordable and Clean Energy	9–12
471	Smart Energy Meter	Monitors energy usage in real-time and displays on an LCD.	Arduino UNO, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12
472	Smart Watch for Heart Rate Monitoring	Monitors heart rate and displays it on a screen.	Arduino UNO, Pulse Sensor, OLED Display	SDG 3: Good Health and Well-being	9–12
473	Voice-Controlled Home Lighting	Controls home lights using voice commands.	Arduino UNO, Microphone, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
474	Arduino-Powered Smart Trash Bin	Automatically opens when an object is detected near the lid.	Arduino UNO, IR Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	9–12
475	Arduino-Powered Garden Irrigation System	Waters plants based on weather conditions and soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 6: Clean Water and Sanitation	9–12
476	Smart Light Dimmer	Automatically adjusts the brightness of lights based on ambient light.	Arduino UNO, LDR, Triac, Potentiometer	SDG 7: Affordable and Clean Energy	9–12
477	Voice-Controlled Car	Controls the movement of a car using voice commands.	Arduino UNO, Bluetooth Module, Motor Driver, Microphone	SDG 9: Industry, Innovation, and Infrastructure	9–12
478	IoT-Based Health Monitoring System	Monitors heart rate, temperature, and sends data to a mobile app.	Arduino UNO, Pulse Sensor, DHT11, Wi-Fi Module	SDG 3: Good Health and Well-being	9–12
479	Smart Parking System	Monitors parking spots and displays available spaces.	Arduino UNO, Ultrasonic Sensor, LCD Display, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
480	Arduino-Based Smart Lock System	Controls door lock via Bluetooth and mobile app.	Arduino UNO, Bluetooth Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
481	Smart Fan Control System	Controls fan speed based on temperature changes.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
482	Arduino-Based Home Security Camera	Monitors home security with live video streaming on a mobile device.	Arduino UNO, Camera Module, Wi-Fi Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
483	Arduino-Powered Smart Air Purifier	Detects pollution and turns on an air purifier when needed.	Arduino UNO, MQ-135 Sensor, Fan, Relay	SDG 11: Sustainable Cities and Communities	9–12

484	Automated Plant Watering System	Waters plants automatically based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
485	Arduino-Based Intelligent Waste Bin	Sorts waste into categories (e.g., organic, recyclable, etc.).	Arduino UNO, IR Sensors, Servo Motors, Buzzer	SDG 12: Responsible Consumption and Production	9–12
486	Arduino-Powered Soil Fertility Tester	Tests soil quality and provides suggestions for improvements.	Arduino UNO, pH Sensor, Moisture Sensor, LCD	SDG 2: Zero Hunger	9–12
487	Smart Automated Greenhouse System	Controls temperature, humidity, and watering system for a greenhouse.	Arduino UNO, DHT22, Relay, Soil Moisture Sensor	SDG 2: Zero Hunger	9–12
488	Voice-Controlled Home Automation	Automates devices like lights and fans through voice recognition.	Arduino UNO, Microphone, Relay, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
489	Arduino-Powered Voice Translator	Translates basic phrases into different languages using voice input.	Arduino UNO, Microphone, Speaker, Bluetooth Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
490	Arduino-Based Motion Detection System	Detects motion and triggers a response like lighting or an alarm.	Arduino UNO, PIR Sensor, Relay, LED, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
491	Automated Hydroponics System	Monitors and regulates nutrient levels and water flow for hydroponic plants.	Arduino UNO, pH Sensor, Water Pump, Relay	SDG 2: Zero Hunger	9–12
492	IoT-Based Air Quality Monitoring System	Measures air quality and sends data to a cloud platform for analysis.	Arduino UNO, MQ-135, Wi-Fi Module, LCD	SDG 11: Sustainable Cities and Communities	9–12
493	Smart Glasses with Bluetooth	Displays notifications on glasses and receives input via Bluetooth.	Arduino UNO, OLED Display, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
494	Arduino-Powered Gas Leak Detection	Detects gas leaks and activates an alarm system.	Arduino UNO, MQ-2 Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
495	Arduino-Powered Heart Rate Monitor	Monitors heart rate and displays it on an LCD screen.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
496	Smart Home System with Mobile Control	Controls home devices like lights and fans through a mobile app.	Arduino UNO, Bluetooth Module, Relay	SDG 7: Affordable and Clean Energy	9–12

497	Smart Traffic Light Control	Automatically changes traffic light patterns based on traffic density.	Arduino UNO, IR Sensors, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
498	Automated Fan with Temperature Sensor	Turns on/off a fan based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
499	Voice-Controlled Robot Arm	Controls a robotic arm through voice commands.	Arduino UNO, Servo Motors, Microphone	SDG 9: Industry, Innovation, and Infrastructure	9–12
500	Smart Water Tank Level Indicator	Monitors and indicates the water level in a tank.	Arduino UNO, Ultrasonic Sensor, LCD, Buzzer	SDG 6: Clean Water and Sanitation	9–12
501	Smart Garden Irrigation System	Automatically waters the garden based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
502	Arduino-Powered Home Energy Monitor	Tracks energy consumption in real time and displays it on an LCD.	Arduino UNO, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12
503	Traffic Light Control with Sensors	Controls traffic lights using vehicle detection sensors.	Arduino UNO, IR Sensors, Servo Motors, LEDs	SDG 9: Industry, Innovation, and Infrastructure	9–12
504	Automated Pet Door	Opens automatically when a pet approaches, using RFID or sensor.	Arduino UNO, RFID Module, Servo Motor, Ultrasonic Sensor	SDG 12: Responsible Consumption and Production	9–12
505	Smart Bike Helmet	Displays speed and distance traveled using sensors in a bike helmet.	Arduino UNO, GPS Module, OLED Display, Accelerometer	SDG 3: Good Health and Well-being	9–12
506	Arduino-Based Home Automation System	Controls lighting, fans, and appliances from a mobile device.	Arduino UNO, Bluetooth Module, Relay, LED, Fan	SDG 7: Affordable and Clean Energy	9–12
507	Automated Plant Care System	Monitors soil moisture and provides automatic watering for plants.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
508	IoT-Based Smart Smoke Detector	Detects smoke and sends alerts to your phone via Wi-Fi.	Arduino UNO, MQ-2 Sensor, Wi-Fi Module, Buzzer	SDG 3: Good Health and Well-being	9–12
509	Smart Desk Organizer	Organizes and tracks items on your desk using RFID tags.	Arduino UNO, RFID Module, Servo Motors, LCD	SDG 12: Responsible Consumption and Production	9–12

510	Home Temperature Control System	Maintains a comfortable temperature in a room using sensors and fans.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
511	Voice-Controlled Automation	Controls home devices through voice recognition.	Arduino UNO, Microphone, Bluetooth Module, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
512	Voice-Controlled Lighting System	Controls room lights using voice commands.	Arduino UNO, Microphone, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
513	Arduino-Powered Automated Alarm System	Creates an alarm system that activates based on motion detection.	Arduino UNO, PIR Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
514	IoT-Based Weather Monitoring System	Monitors weather parameters and sends data to a cloud platform.	Arduino UNO, DHT11, Wi-Fi Module, LCD	SDG 13: Climate Action	9–12
515	Arduino-Based Gas Monitoring System	Detects gas leaks and sends alerts in case of high gas concentration.	Arduino UNO, MQ-2 Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
516	Heart Rate and ECG Monitoring System	Monitors heart rate and displays ECG waveform.	Arduino UNO, ECG Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
517	Arduino-Powered Automated Fan	Controls a fan based on ambient temperature or humidity levels.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
518	Wireless Plant Moisture Monitoring	Monitors plant moisture levels wirelessly and sends updates to a phone.	Arduino UNO, Soil Moisture Sensor, Wi-Fi Module	SDG 15: Life on Land	9–12
519	Solar-Powered Water Pump System	Pumps water from a reservoir to plants using solar power.	Arduino UNO, Solar Panel, Water Pump, Relay	SDG 7: Affordable and Clean Energy	9–12
520	Smart Car Parking System	Detects available parking spaces and alerts drivers.	Arduino UNO, Ultrasonic Sensor, LCD Display, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
521	Automated Facial Recognition Door Lock	Unlocks doors based on facial recognition.	Arduino UNO, Camera Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
522	Arduino-Powered Automatic Gate System	Opens a gate based on a specific signal or command.	Arduino UNO, Servo Motor, Bluetooth Module, Push Button	SDG 11: Sustainable Cities and Communities	9–12

523	Weather Forecasting with Arduino	Predicts weather changes based on sensor data.	Arduino UNO, DHT11, BMP180, LCD	SDG 13: Climate Action	9–12
524	Arduino-Powered Garden Light System	Automatically turns on garden lights based on ambient light levels.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
525	Smart Energy Meter with Mobile Alerts	Measures power consumption and alerts users via mobile when thresholds are crossed.	Arduino UNO, Current Sensor, Wi-Fi Module, LCD	SDG 7: Affordable and Clean Energy	9–12
526	Automatic Night Light System	Turns on the light when it gets dark and off when it's bright.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	6–12
527	Smart Dustbin with Waste Segregation	Automatically sorts waste into categories (recyclable, organic, etc.).	Arduino UNO, IR Sensors, Servo Motors, Buzzer	SDG 12: Responsible Consumption and Production	9–12
528	Automatic Blinds Control	Opens and closes blinds based on light intensity.	Arduino UNO, LDR, Servo Motor, Relay	SDG 7: Affordable and Clean Energy	9–12
529	Solar-Powered Fan	Runs a fan using solar energy and temperature sensors.	Arduino UNO, Solar Panel, Temperature Sensor, Fan, Relay	SDG 7: Affordable and Clean Energy	9–12
530	Home Automation via Mobile App	Controls home devices through a smartphone app.	Arduino UNO, Bluetooth Module, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
531	Automated Plant Growth Chamber	Monitors and adjusts temperature, humidity, and light for plant growth.	Arduino UNO, DHT11, LDR, Relay, Fan	SDG 2: Zero Hunger	9–12
532	Arduino-Powered Rainwater Harvesting System	Collects and stores rainwater while monitoring levels.	Arduino UNO, Rain Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
533	Digital Thermometer with LCD Display	Measures and displays temperature in real time.	Arduino UNO, DHT11, LCD Display	SDG 13: Climate Action	6–12
534	Smart LED Matrix Display	Displays messages or patterns on an LED matrix.	Arduino UNO, 8x8 LED Matrix, Push Button	SDG 4: Quality Education	9–12
535	Arduino-Powered Automated Door Opening	Opens the door when it detects a person.	Arduino UNO, PIR Sensor, Servo Motor, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12

536	Smart Watch with Fitness Tracker	Tracks steps, heart rate, and displays data on an OLED screen.	Arduino UNO, OLED Display, Pulse Sensor, Accelerometer	SDG 3: Good Health and Well-being	9–12
537	Motion-Activated Security System	Activates an alarm when motion is detected.	Arduino UNO, PIR Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
538	Smart Doorbell System	Rings a doorbell with video capture and mobile notifications.	Arduino UNO, Camera Module, Wi-Fi Module, Speaker	SDG 11: Sustainable Cities and Communities	9–12
539	Smart Watering System for Plants	Waters plants when soil moisture levels are low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
540	Arduino-Based Fingerprint Scanner	Captures and matches fingerprints for access control.	Arduino UNO, Fingerprint Scanner, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
541	Smart Shopping Cart	Tracks total cost of items and provides a receipt.	Arduino UNO, Barcode Scanner, LCD, Relay	SDG 12: Responsible Consumption and Production	9–12
542	Bluetooth-Based Home Automation	Automates devices in the home using Bluetooth communication.	Arduino UNO, Bluetooth Module, Relay	SDG 7: Affordable and Clean Energy	9–12
543	Smart Plant Care System	Monitors environmental parameters for plant health and waters when needed.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, Water Pump	SDG 15: Life on Land	9–12
544	LED Dice	Simulates a rolling dice with an LED matrix display.	Arduino UNO, 8x8 LED Matrix, Push Button	SDG 4: Quality Education	6–8
545	Home Energy Consumption Monitoring System	Monitors energy usage for household appliances.	Arduino UNO, Current Sensor, LCD	SDG 7: Affordable and Clean Energy	9–12
546	Smart Temperature Controlled Fan	Controls a fan based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
547	Internet-Controlled Home Appliances	Control home appliances from anywhere via the internet.	Arduino UNO, Wi-Fi Module, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
548	Car Parking Slot Indicator	Detects if a parking space is free or occupied.	Arduino UNO, Ultrasonic Sensor, LED Display	SDG 11: Sustainable Cities and Communities	9–12
549	Distance Measuring System with Display	Measures the distance between the sensor and an object.	Arduino UNO, Ultrasonic Sensor, LCD	SDG 9: Industry, Innovation, and Infrastructure	9–12

550	Voice-Controlled Home Appliances	Controls home appliances using voice commands.	Arduino UNO, Microphone, Relay, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
551	Bluetooth-Powered Home Lighting	Controls home lighting with a smartphone via Bluetooth.	Arduino UNO, Bluetooth Module, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
552	Automated Pet Feeder	Dispenses food for pets at scheduled times.	Arduino UNO, Servo Motor, Real-Time Clock, Food Dispenser	SDG 2: Zero Hunger	9–12
553	Smart Motion-Activated Night Light	Automatically turns on a light when motion is detected at night.	Arduino UNO, PIR Sensor, LED, Relay	SDG 7: Affordable and Clean Energy	6–12
554	IoT-Based Home Automation	Controls home appliances via the internet through an app.	Arduino UNO, Wi-Fi Module, Relay, Smartphone	SDG 9: Industry, Innovation, and Infrastructure	9–12
555	Smart Fan Control System	Regulates fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
556	Arduino-Powered Door Security System	Unlocks the door based on voice or RFID input.	Arduino UNO, RFID Module, Voice Module, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
557	Solar-Powered Arduino Weather Station	Measures weather parameters and is powered by solar energy.	Arduino UNO, Solar Panel, Temperature Sensor, Humidity Sensor	SDG 13: Climate Action	9–12
558	Smart Mirror	Displays useful information like time, weather, and news on a mirror.	Arduino UNO, LCD, Raspberry Pi, Mirror	SDG 9: Industry, Innovation, and Infrastructure	9–12
559	Automatic Water Level Control	Controls water pumps based on the water level in a tank.	Arduino UNO, Ultrasonic Sensor, Relay, Water Pump	SDG 6: Clean Water and Sanitation	9–12
560	Motion-Activated Night Lamp	Automatically turns on a lamp at night using motion sensors.	Arduino UNO, PIR Sensor, Relay, LED Lamp	SDG 7: Affordable and Clean Energy	6–12
561	IoT-Connected Smart Door Lock	Unlocks the door remotely via Wi-Fi using an app.	Arduino UNO, Wi-Fi Module, Servo Motor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
562	Interactive LED Game	A game where the LEDs light up based on player input.	Arduino UNO, 8x8 LED Matrix, Push Buttons	SDG 4: Quality Education	6–9
563	Smart Fan with Humidity Control	Controls fan speed based on humidity levels in the room.	Arduino UNO, DHT11 Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
564	Water Quality Monitoring System	Measures and monitors the quality of water in real-time.	Arduino UNO, pH Sensor, TDS Sensor, LCD	SDG 6: Clean Water and Sanitation	9–12

565	Automated Garden Light	Turns garden lights on at night and off during the day.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
566	Smart Traffic Signal System	Controls traffic lights using sensors to optimize traffic flow.	Arduino UNO, IR Sensors, LEDs, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
567	Automated Plant Watering System	Automatically waters plants when soil moisture is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
568	Smart Waste Management System	Detects and manages waste levels in bins.	Arduino UNO, Ultrasonic Sensor, Servo Motor, LCD Display	SDG 12: Responsible Consumption and Production	9–12
569	Gesture-Controlled Robot	Controls a robot using hand gestures detected by sensors.	Arduino UNO, Accelerometer, Motors, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
570	Arduino-Powered Watering Timer	Waters plants at regular intervals with a timer.	Arduino UNO, Relay, Water Pump, Real-Time Clock	SDG 15: Life on Land	9–12
571	Smart Irrigation System	Monitors and controls irrigation based on weather and soil moisture.	Arduino UNO, Soil Moisture Sensor, Weather API, Water Pump	SDG 6: Clean Water and Sanitation	9–12
572	Interactive LED Piano	Plays music when different keys are pressed.	Arduino UNO, 8x8 LED Matrix, Buzzer	SDG 4: Quality Education	6–9
573	Smart Water Dispenser	Dispenses water automatically based on proximity of a glass.	Arduino UNO, Ultrasonic Sensor, Servo Motor, Water Dispenser	SDG 6: Clean Water and Sanitation	9–12
574	Smart Rain Detection System	Detects rain and activates a water collection system.	Arduino UNO, Rain Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
575	Digital Stopwatch	A digital stopwatch with start/stop functionality.	Arduino UNO, LCD Display, Push Buttons	SDG 4: Quality Education	6–9
576	Smart Energy Meter	Measures and displays energy consumption of home appliances.	Arduino UNO, Current Sensor, LCD Display, Relay	SDG 7: Affordable and Clean Energy	9–12
577	Smart Traffic Monitoring System	Monitors traffic density and adjusts traffic lights accordingly.	Arduino UNO, IR Sensors, LEDs, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
578	Heart Rate Monitor	Monitors heart rate and displays it on an LCD screen.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12

579	Smart Mirror with Weather Updates	Displays weather updates and time on a mirror.	Arduino UNO, LCD, Mirror, Raspberry Pi	SDG 9: Industry, Innovation, and Infrastructure	9–12
580	Home Automation System	Controls home appliances via a smartphone app.	Arduino UNO, Bluetooth Module, Relay, Smartphone	SDG 9: Industry, Innovation, and Infrastructure	9–12
581	Arduino-Powered Greenhouse Control System	Regulates the environment (temperature, humidity) inside a greenhouse.	Arduino UNO, Temperature Sensor, Humidity Sensor, Relay	SDG 13: Climate Action	9–12
582	Smart Bicycle System	Measures and tracks speed, distance, and time on a bicycle.	Arduino UNO, Speed Sensor, LCD Display, Gyroscope	SDG 3: Good Health and Well-being	9–12
583	Digital Dice	Simulates the roll of a dice and displays a random number.	Arduino UNO, LED, Push Button	SDG 4: Quality Education	6–9
584	Light-sensitive Fan Control	Controls fan speed based on light intensity.	Arduino UNO, LDR, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
585	Automatic Fish Feeder	Feeds fish at scheduled times based on a timer.	Arduino UNO, Servo Motor, RTC Module, Fish Feeder	SDG 2: Zero Hunger	9–12
586	Air Quality Monitoring System	Monitors air quality and displays it on an LCD.	Arduino UNO, MQ Series Gas Sensors, LCD Display	SDG 13: Climate Action	9–12
587	Voice-Controlled Fan	Controls the fan using voice commands.	Arduino UNO, Voice Module, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
588	Real-Time Weather Station	Measures temperature, humidity, and displays on a real-time LCD.	Arduino UNO, DHT11, LCD Display	SDG 13: Climate Action	9–12
589	Digital Temperature Display	Displays the current temperature on an LCD screen.	Arduino UNO, Temperature Sensor, LCD Display	SDG 13: Climate Action	6–9
590	Fire Alarm System	Detects smoke and triggers an alarm.	Arduino UNO, Smoke Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
591	Smart Energy Saving System	Automatically switches off appliances when not in use.	Arduino UNO, Relay, Current Sensor, PIR Sensor	SDG 7: Affordable and Clean Energy	9–12
592	Automated Gate Control	Opens and closes a gate based on proximity detection.	Arduino UNO, Ultrasonic Sensor, Servo Motor, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
593	Arduino-Powered Water Pump	Controls water pump based on tank water level.	Arduino UNO, Ultrasonic Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12

594	Digital Light Meter	Measures light intensity and displays the value on an LCD.	Arduino UNO, LDR, LCD Display	SDG 7: Affordable and Clean Energy	6–9
595	Smart Refrigerator	Monitors temperature and alerts when the fridge door is left open.	Arduino UNO, Temperature Sensor, Buzzer, Relay	SDG 12: Responsible Consumption and Production	9–12
596	Soil Moisture Monitoring System	Measures soil moisture and waters the plants if necessary.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 15: Life on Land	9–12
597	IoT-Connected Smart Lock	Unlocks a door remotely via the internet.	Arduino UNO, Wi-Fi Module, Servo Motor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
598	Smart Sound-Activated LED Lights	Lights up LEDs when a sound is detected.	Arduino UNO, Microphone, LED, Relay	SDG 4: Quality Education	6–12
599	Temperature and Humidity Logger	Logs and displays temperature and humidity values over time.	Arduino UNO, DHT11, SD Card Module, LCD Display	SDG 13: Climate Action	9–12
600	Arduino-Powered Weather Balloon	Launches a weather balloon to measure atmospheric parameters.	Arduino UNO, Barometer, GPS Module, Temperature Sensor	SDG 13: Climate Action	9–12
601	Solar Tracker	A system that automatically tracks the sun for optimal solar energy.	Arduino UNO, Servo Motor, Light Sensors, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
602	Smart Home Security System	Uses sensors to detect unauthorized entry and sound an alarm.	Arduino UNO, PIR Sensor, Buzzer, Door Sensor	SDG 16: Peace, Justice, and Strong Institutions	9–12
603	Real-Time GPS Tracker	Tracks the location of a moving object and displays it on a map.	Arduino UNO, GPS Module, LCD Display, GSM Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
604	Arduino-Based Barcode Scanner	Scans and displays barcode data on a screen.	Arduino UNO, Barcode Scanner, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
605	Automatic Light Control	Controls the lighting based on ambient light intensity.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	6–12
606	Voice-Controlled LED Strip	Controls LED strip colors and patterns using voice commands.	Arduino UNO, Voice Module, LED Strip, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
607	Motion-Controlled Car	Controls a toy car's movement based on motion sensing.	Arduino UNO, Accelerometer, Motors, Servo Motor	SDG 4: Quality Education	6–9

608	Smart Watering System	Waters plants when the soil moisture level is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
609	Voice-Activated Home Appliance Control	Turns home appliances on/off using voice commands.	Arduino UNO, Voice Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
610	Digital Thermometer	Displays the current temperature on a digital screen.	Arduino UNO, Temperature Sensor, LCD Display	SDG 13: Climate Action	6–9
611	Fire Safety Alarm	Detects fire or smoke and activates an alarm system.	Arduino UNO, Smoke Sensor, Buzzer, LED	SDG 11: Sustainable Cities and Communities	9–12
612	Health Monitoring System	Monitors heart rate and body temperature.	Arduino UNO, Pulse Sensor, Temperature Sensor, LCD	SDG 3: Good Health and Well-being	9–12
613	Automatic Curtain Opener	Opens or closes curtains based on time of day or ambient light.	Arduino UNO, Servo Motor, LDR	SDG 7: Affordable and Clean Energy	9–12
614	Automated Recycling Bin	Sorts trash based on material (plastic, paper, etc.).	Arduino UNO, Servo Motors, IR Sensors	SDG 12: Responsible Consumption and Production	9–12
615	Digital Clock with Temperature Display	Displays time and temperature on a digital screen.	Arduino UNO, RTC Module, Temperature Sensor, LCD Display	SDG 13: Climate Action	6–9
616	Temperature-Controlled Fan	Controls fan speed based on temperature levels.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
617	Soil pH Monitoring System	Monitors the pH level of soil for agricultural use.	Arduino UNO, pH Sensor, LCD Display	SDG 2: Zero Hunger	9–12
618	Smart Parking System	Detects parking space availability and displays it on a screen.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
619	Gesture-Controlled LED	Controls the brightness of an LED using hand gestures.	Arduino UNO, Accelerometer, LED, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
620	Home Climate Control System	Regulates the home's temperature based on room conditions.	Arduino UNO, Temperature Sensor, Humidity Sensor, Fan	SDG 13: Climate Action	9–12
621	Automated Fish Tank Cleaner	Cleans the fish tank by detecting waste and removing it.	Arduino UNO, Motor, Ultrasonic Sensor, Servo Motor	SDG 14: Life Below Water	9–12
622	IoT-Based Smart Refrigerator	Monitors and controls the fridge's temperature and door status.	Arduino UNO, Wi-Fi Module, Temperature Sensor, Relay	SDG 12: Responsible Consumption and Production	9–12

623	Smart Home Lighting System	Controls multiple lighting circuits in a smart home environment.	Arduino UNO, Relay, Bluetooth Module, LEDs	SDG 9: Industry, Innovation, and Infrastructure	9–12
624	Arduino-Powered Smart Door	Unlocks or locks the door remotely using an app.	Arduino UNO, Bluetooth Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
625	Automated Plant Growth System	Automatically adjusts light and water for optimal plant growth.	Arduino UNO, Soil Moisture Sensor, Light Sensor, Water Pump	SDG 15: Life on Land	9–12
626	Smart Irrigation System	Automates the watering process based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Relay, Water Pump	SDG 6: Clean Water and Sanitation	9–12
627	Gesture-Controlled Robot	Controls a robot's movement using hand gestures.	Arduino UNO, Accelerometer, Servo Motors, Motors	SDG 4: Quality Education	9–12
628	Smart Door Lock	Unlocks the door via a smartphone app.	Arduino UNO, Bluetooth Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
629	Arduino-Powered Smart Fan	Controls fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
630	Smart Energy Meter with Display	Monitors and displays energy consumption in real-time.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
631	Bluetooth-Controlled Car	Controls a toy car via Bluetooth.	Arduino UNO, Bluetooth Module, Motors, Servo Motor	SDG 9: Industry, Innovation, and Infrastructure	6–9
632	Arduino-Powered Smart Waste Bin	Sorts waste materials into different categories.	Arduino UNO, Servo Motors, IR Sensors	SDG 12: Responsible Consumption and Production	9–12
633	Automatic Plant Watering System	Waters plants when the soil moisture level is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 15: Life on Land	9–12
634	Solar-Powered Light System	Powers an LED light using solar energy.	Arduino UNO, Solar Panel, Battery, LED	SDG 7: Affordable and Clean Energy	9–12
635	Smart Traffic Light System	Controls traffic light timings based on real-time traffic.	Arduino UNO, IR Sensors, LEDs, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
636	Smart Room Lighting System	Automatically adjusts room lighting based on ambient light intensity.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
637	Heart Rate Monitoring System	Monitors and displays the user's heart rate on an LCD.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
638	IoT-Based Home Automation	Controls home devices remotely via the internet.	Arduino UNO, Wi-Fi Module, Relay, Smartphone	SDG 9: Industry, Innovation, and Infrastructure	9–12

639	Digital Speedometer	Measures and displays the speed of a moving vehicle.	Arduino UNO, Speed Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
640	Water Tank Level Indicator	Monitors and displays the water tank's water level.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
641	Automatic Fan Control	Controls the fan based on temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
642	Soil Moisture and pH Monitor	Monitors soil moisture and pH levels for plants.	Arduino UNO, Soil Moisture Sensor, pH Sensor, LCD	SDG 15: Life on Land	9–12
643	Bluetooth-Controlled Home Appliances	Controls home appliances using a smartphone app.	Arduino UNO, Bluetooth Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
644	Automatic Pet Feeder	Feeds pets at scheduled times.	Arduino UNO, Servo Motor, RTC Module, Pet Feeder	SDG 2: Zero Hunger	9–12
645	Smart Air Quality Monitor	Monitors air quality and displays it on an LCD.	Arduino UNO, MQ Series Gas Sensors, LCD Display	SDG 13: Climate Action	9–12
646	Digital Thermometer with Display	Displays the measured temperature on an LCD.	Arduino UNO, Temperature Sensor, LCD Display	SDG 13: Climate Action	6–9
647	Automated Greenhouse Control	Regulates temperature and humidity inside a greenhouse.	Arduino UNO, Temperature Sensor, Humidity Sensor, Relay	SDG 13: Climate Action	9–12
648	Voice-Controlled Home Automation	Controls home appliances using voice commands.	Arduino UNO, Voice Module, Relay, Home Appliances	SDG 9: Industry, Innovation, and Infrastructure	9–12
649	Smart Bike Lock	Unlocks and locks a bike using a smartphone app.	Arduino UNO, Bluetooth Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
650	Real-Time Traffic Monitoring System	Monitors traffic density in real-time and adjusts signal timings.	Arduino UNO, IR Sensors, LCD Display, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
651	Smart Waste Management System	Monitors trash levels and notifies when bins are full.	Arduino UNO, Ultrasonic Sensor, GSM Module, Trash Bin	SDG 12: Responsible Consumption and Production	9–12
652	Smart Mirror	A mirror that displays useful information like weather, time, and news.	Arduino UNO, LCD Display, Mirror, Raspberry Pi, Camera	SDG 9: Industry, Innovation, and Infrastructure	9–12

653	Digital Voltmeter	Measures and displays voltage on an LCD screen.	Arduino UNO, Voltage Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
654	Smart Coffee Maker	Brews coffee at scheduled times or remotely.	Arduino UNO, Relay, RTC Module, Coffee Maker	SDG 12: Responsible Consumption and Production	9–12
655	Smart Alarm Clock	A clock that wakes you up based on your sleep cycle.	Arduino UNO, RTC Module, Buzzer, Light Sensor	SDG 3: Good Health and Well-being	9–12
656	Temperature and Humidity Monitoring System	Monitors and displays temperature and humidity levels.	Arduino UNO, DHT11/DHT22 Sensor, LCD Display	SDG 13: Climate Action	6–12
657	Smart Trash Bin with Lid Control	Automatically opens and closes the trash bin lid using sensors.	Arduino UNO, Ultrasonic Sensor, Servo Motor, Trash Bin	SDG 12: Responsible Consumption and Production	9–12
658	Smart Light Dimmer	Dims the light based on the time of day or ambient light.	Arduino UNO, LDR, Triac, Potentiometer	SDG 7: Affordable and Clean Energy	9–12
659	Water Quality Monitoring System	Monitors and displays water quality parameters like pH, turbidity.	Arduino UNO, pH Sensor, Turbidity Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
660	Object Detection System	Detects objects in the path of the system using ultrasonic sensors.	Arduino UNO, Ultrasonic Sensors, Motors, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
661	Automatic Fan Speed Controller	Controls the speed of the fan based on temperature and humidity.	Arduino UNO, Temperature and Humidity Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
662	Arduino-Based Smart Watch	Displays time, steps, and other parameters on a small screen.	Arduino UNO, LCD Display, Accelerometer, RTC Module	SDG 3: Good Health and Well-being	9–12
663	Soil Health Monitoring System	Measures various soil health parameters for agriculture.	Arduino UNO, Soil Moisture Sensor, pH Sensor, LCD Display	SDG 2: Zero Hunger	9–12
664	Air Pollution Monitoring System	Monitors the air quality and sends notifications when pollutants are high.	Arduino UNO, MQ Gas Sensor, LCD Display, Buzzer	SDG 13: Climate Action	9–12
665	Smart Sleep Monitoring System	Monitors your sleep cycle and quality of sleep.	Arduino UNO, Accelerometer, RTC Module, LCD Display	SDG 3: Good Health and Well-being	9–12
666	Smart Doorbell with Camera	Alerts homeowners and provides video feed when someone presses the doorbell.	Arduino UNO, Camera Module, Buzzer, Wi-Fi Module	SDG 16: Peace, Justice, and Strong Institutions	9–12

667	Automatic Pet Door	Opens the pet door based on RFID tags or other sensors.	Arduino UNO, RFID Sensor, Servo Motor	SDG 11: Sustainable Cities and Communities	9–12
668	Wireless Weather Station	Sends weather data to a smartphone using a wireless connection.	Arduino UNO, DHT11/DHT22 Sensor, Wi-Fi Module	SDG 13: Climate Action	9–12
669	Soil Fertilizer Monitoring System	Monitors soil fertility and suggests the right fertilizer.	Arduino UNO, Soil Moisture Sensor, pH Sensor, LCD Display	SDG 2: Zero Hunger	9–12
670	Automatic Irrigation Based on Weather	Irrigates plants based on weather forecasts.	Arduino UNO, Weather API, Relay, Water Pump	SDG 6: Clean Water and Sanitation	9–12
671	Motion Sensing Alarm System	Detects motion and triggers an alarm.	Arduino UNO, PIR Sensor, Buzzer, LED	SDG 16: Peace, Justice, and Strong Institutions	9–12
672	Smart Window Blinds	Automatically adjusts blinds based on time or light intensity.	Arduino UNO, Servo Motor, LDR	SDG 7: Affordable and Clean Energy	9–12
673	Biometric Security System	Uses fingerprints for secure access control.	Arduino UNO, Fingerprint Sensor, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
674	Real-Time Traffic Density Monitoring	Measures and displays the traffic density in a specific area.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
675	Arduino-Powered Smart Kitchen	Controls various kitchen appliances like stoves and ovens remotely.	Arduino UNO, Relay, GSM Module, Temperature Sensor	SDG 12: Responsible Consumption and Production	9–12
676	Smart Bike Helmet	Detects sudden falls and sends an alert to emergency contacts.	Arduino UNO, Accelerometer, GSM Module	SDG 3: Good Health and Well-being	9–12
677	Real-Time Temperature Data Logger	Logs and displays real-time temperature data on a screen.	Arduino UNO, Temperature Sensor, LCD Display	SDG 13: Climate Action	9–12
678	IoT-Based Smart Water Tank	Monitors and manages the water level in a tank remotely via the internet.	Arduino UNO, Wi-Fi Module, Ultrasonic Sensor, Water Pump	SDG 6: Clean Water and Sanitation	9–12
679	Smart Street Light System	Automatically turns on/off street lights based on ambient light levels.	Arduino UNO, LDR, Relay, LED	SDG 7: Affordable and Clean Energy	9–12
680	Home Energy Monitoring System	Monitors the energy consumption of home appliances.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
681	DIY ECG Machine	Records and displays the electrical activity of the heart.	Arduino UNO, ECG Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12

682	Soil pH and Moisture Level Monitoring	Monitors soil pH and moisture level for agriculture.	Arduino UNO, pH Sensor, Soil Moisture Sensor, LCD Display	SDG 2: Zero Hunger	9–12
683	Automated Greenhouse Climate Control	Regulates temperature and humidity in a greenhouse.	Arduino UNO, Temperature Sensor, Humidity Sensor, Relay	SDG 13: Climate Action	9–12
684	Fingerprint Attendance System	Tracks attendance based on fingerprints.	Arduino UNO, Fingerprint Sensor, LCD Display, Servo Motor	SDG 4: Quality Education	9–12
685	Smart Pollution Mask	Detects air quality and adjusts the fan speed in a mask accordingly.	Arduino UNO, MQ Gas Sensor, Fan, Mask	SDG 13: Climate Action	9–12
686	Automated Hydroponic System	Manages water and nutrient levels in a hydroponic setup.	Arduino UNO, pH Sensor, Water Pump, Relay	SDG 2: Zero Hunger	9–12
687	Real-Time Vehicle Speed Detection	Measures the speed of vehicles in real-time using radar or sensors.	Arduino UNO, Radar Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
688	Gesture-Controlled Light	Controls the light using hand gestures.	Arduino UNO, Accelerometer, LED, Relay	SDG 7: Affordable and Clean Energy	9–12
689	Automated Garden Irrigation System	Waters garden plants based on environmental conditions.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
690	Water Purification System	Filters and purifies water using sensors to monitor its quality.	Arduino UNO, Water Filter, pH Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
691	Real-Time Heart Rate Monitor	Monitors heart rate and displays it on a screen.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
692	Voice-Controlled Home Automation	Controls home appliances using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Home Appliances	SDG 9: Industry, Innovation, and Infrastructure	9–12
693	Arduino-Based Smart Lock	Unlocks doors using a mobile app.	Arduino UNO, Bluetooth Module, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
694	Digital Weather Station	Measures and displays weather parameters like temperature and humidity.	Arduino UNO, DHT11 Sensor, LCD Display	SDG 13: Climate Action	9–12
695	Automated Fish Feeder	Feeds fish at regular intervals based on a set schedule.	Arduino UNO, Servo Motor, RTC Module, Fish Feeder	SDG 14: Life Below Water	9–12

696	Arduino-Powered Remote-Control Car	Controls a car using a remote control.	Arduino UNO, IR Receiver, Motors, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	6–9
697	Smart Garden Monitoring System	Monitors temperature, soil moisture, and light intensity in a garden.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, LDR	SDG 15: Life on Land	9–12
698	Arduino-Powered Smart Chair	Adjusts the chair's position based on user's posture.	Arduino UNO, Servo Motors, Pressure Sensor	SDG 3: Good Health and Well-being	9–12
699	Sound-Activated Light	Turns on lights based on sound or noise level.	Arduino UNO, Microphone Sensor, Relay, LED	SDG 7: Affordable and Clean Energy	6–9
700	DIY Radar System	Detects objects or obstacles using radar waves.	Arduino UNO, Radar Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
701	Wireless Home Security System	Monitors and sends alerts for any suspicious activity in the house.	Arduino UNO, PIR Sensor, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
702	Digital Pet Feeder	Dispenses pet food at scheduled times.	Arduino UNO, Servo Motor, RTC Module, Pet Food Container	SDG 2: Zero Hunger	6–12
703	Automatic Fan for Computer Cooling	Turns on/off the fan based on computer temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
704	Smart Bicycle Light	Detects and turns on the bicycle light based on ambient light levels.	Arduino UNO, LDR, LED, Light Sensor	SDG 7: Affordable and Clean Energy	9–12
705	Real-Time Bus Tracking System	Tracks the location of a bus and shows the time of arrival.	Arduino UNO, GPS Module, LCD Display	SDG 11: Sustainable Cities and Communities	9–12
706	Real-Time Data Logger	Logs data from various sensors and stores it for future analysis.	Arduino UNO, SD Card Module, Various Sensors	SDG 9: Industry, Innovation, and Infrastructure	9–12
707	Automatic Room Light Controller	Turns lights on/off based on occupancy using PIR sensors.	Arduino UNO, PIR Sensor, Relay, Light Bulb	SDG 7: Affordable and Clean Energy	9–12
708	Voice-Controlled Fan	Turns on/off a fan based on voice commands.	Arduino UNO, Voice Recognition Module, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
709	Plant Growth Monitoring System	Monitors and displays parameters such as soil moisture and temperature for plant growth.	Arduino UNO, Temperature Sensor, Soil Moisture Sensor, LCD Display	SDG 15: Life on Land	9–12

710	Wi-Fi Controlled Home Appliances	Controls home appliances using a Wi-Fi-enabled mobile app.	Arduino UNO, Wi-Fi Module, Relay, Home Appliances	SDG 9: Industry, Innovation, and Infrastructure	9–12
711	Arduino-Based Pulse Oximeter	Measures blood oxygen levels and pulse rate.	Arduino UNO, Pulse Oximeter Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
712	Fire Detection and Alarm System	Detects fire or smoke and triggers an alarm.	Arduino UNO, Smoke Sensor, Fire Sensor, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
713	Smart Watering System	Waters plants automatically based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
714	ECG Heart Rate Monitor	Records and displays the ECG signals of the heart.	Arduino UNO, ECG Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
715	Smart Parking System	Detects available parking spaces and displays them.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
716	Distance Measurement System	Measures the distance of an object using an ultrasonic sensor.	Arduino UNO, Ultrasonic Sensor, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	6–12
717	Arduino-Based Weather Station	Monitors temperature, humidity, and other weather parameters.	Arduino UNO, DHT11/DHT22 Sensor, LCD Display	SDG 13: Climate Action	9–12
718	Automated Window Blinds	Automatically adjusts window blinds based on light intensity.	Arduino UNO, Servo Motors, LDR	SDG 7: Affordable and Clean Energy	9–12
719	Voice-Controlled Wheelchair	Controls the movement of a wheelchair using voice commands.	Arduino UNO, Voice Recognition Module, Motors, Wheelchair	SDG 3: Good Health and Well-being	9–12
720	Automated Medicine Dispenser	Distributes the right medicine at the right time based on a schedule.	Arduino UNO, Servo Motors, RTC Module, Medicine Dispenser	SDG 3: Good Health and Well-being	9–12
721	IoT-Based Smart Home	Controls lights, fans, and appliances using an IoT-based app.	Arduino UNO, Wi-Fi Module, Relay, Home Appliances	SDG 9: Industry, Innovation, and Infrastructure	9–12
722	Smart Dustbin	Detects the level of trash and notifies when it's full.	Arduino UNO, Ultrasonic Sensor, GSM Module, Trash Bin	SDG 12: Responsible Consumption and Production	9–12
723	Smart Energy Meter	Measures energy consumption and displays it on an LCD.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12

724	RFID-Based Door Lock	Unlocks the door when an authorized RFID tag is scanned.	Arduino UNO, RFID Reader, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
725	Arduino-Based Health Monitoring System	Monitors and tracks health metrics like heart rate, temperature.	Arduino UNO, Temperature Sensor, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
726	Smart Energy Efficient Light	Turns lights on or off depending on room occupancy.	Arduino UNO, PIR Sensor, Relay, LED	SDG 7: Affordable and Clean Energy	6–12
727	Solar-Powered Weather Station	Measures weather parameters with solar energy.	Arduino UNO, Solar Panel, DHT11/DHT22, LCD Display	SDG 7: Affordable and Clean Energy	9–12
728	Smart Mirror	Displays weather, time, and calendar on a mirror.	Arduino UNO, LED Display, Mirror, Wi-Fi Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
729	Digital Lock with Keypad	Unlocks the door using a keypad combination.	Arduino UNO, Keypad, Servo Motor, LCD Display	SDG 16: Peace, Justice, and Strong Institutions	9–12
730	Automated Seed Planting Machine	Automates the process of planting seeds in a garden.	Arduino UNO, Servo Motors, Soil, Seed Tray	SDG 2: Zero Hunger	9–12
731	Smart Bike Tracking System	Tracks the location of a bike and sends updates to the user's phone.	Arduino UNO, GPS Module, GSM Module	SDG 11: Sustainable Cities and Communities	9–12
732	Water Level Detection System	Detects the water level in a tank and sends alerts when low.	Arduino UNO, Water Level Sensor, GSM Module	SDG 6: Clean Water and Sanitation	9–12
733	Wi-Fi Controlled Robot	Controls a robot using a Wi-Fi connection and mobile app.	Arduino UNO, Wi-Fi Module, Motors, Robot Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
734	IoT-Based Smart Agriculture System	Monitors soil, temperature, and humidity in agriculture via IoT.	Arduino UNO, Wi-Fi Module, Soil Moisture Sensor, Temperature Sensor	SDG 2: Zero Hunger	9–12
735	Gesture-Controlled Robot	Controls a robot using hand gestures.	Arduino UNO, Accelerometer, Motors, Robot Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
736	Gas Leak Detection System	Detects harmful gases like LPG and notifies the user.	Arduino UNO, Gas Sensor (MQ-2), Buzzer	SDG 3: Good Health and Well-being	9–12
737	IoT-Based Health Monitoring System	Tracks health parameters like pulse and temperature and uploads data.	Arduino UNO, Wi-Fi Module, Pulse Sensor, Temperature Sensor	SDG 3: Good Health and Well-being	9–12

738	Arduino-Powered Smart Thermostat	Controls room temperature based on a set value.	Arduino UNO, Temperature Sensor, Relay, Heating/Cooling Device	SDG 7: Affordable and Clean Energy	9–12
739	Automated Fan Speed Controller	Controls fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
740	Automatic Irrigation System	Waters plants automatically when soil moisture is low.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
741	Smart Doorbell	Alerts you when someone presses your doorbell.	Arduino UNO, Push Button, Camera Module, Wi-Fi Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
742	Arduino-Based Speedometer	Measures and displays the speed of a moving object.	Arduino UNO, GPS Module, LCD Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
743	Motion-Activated Camera System	Activates the camera when motion is detected.	Arduino UNO, PIR Sensor, Camera Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
744	Smart Classroom Attendance System	Takes attendance using RFID tags.	Arduino UNO, RFID Reader, LCD Display	SDG 4: Quality Education	9–12
745	Smart Waste Management System	Monitors the level of trash in bins and alerts when full.	Arduino UNO, Ultrasonic Sensor, GSM Module, Trash Bin	SDG 12: Responsible Consumption and Production	9–12
746	Home Security System with GSM Alerts	Detects intruders and sends an alert via SMS.	Arduino UNO, PIR Sensor, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
747	Arduino-Based Laser Show	Creates a laser light show controlled by Arduino.	Arduino UNO, Laser Module, Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
748	Bluetooth-Controlled Car	Controls a car using Bluetooth on a smartphone.	Arduino UNO, Bluetooth Module, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	6–9
749	Arduino-Based Elevator System	Controls an elevator using push buttons.	Arduino UNO, Motors, Buttons, Relay	SDG 9: Industry, Innovation, and Infrastructure	9–12
750	Soil Moisture and Temperature Monitoring	Monitors soil moisture and temperature for agriculture or gardening.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, LCD Display	SDG 2: Zero Hunger	9–12
751	Smart Trash Bin	Automatically opens the trash bin lid when you approach.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	6–12

752	Voice-Controlled Home Automation	Controls home appliances using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
753	Automated Blind Control	Adjusts window blinds based on ambient light intensity.	Arduino UNO, LDR, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
754	Smart Heart Rate Monitor	Monitors and displays heart rate in real-time.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
755	Plant Watering System with Moisture Sensor	Waters plants based on soil moisture level.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
756	RFID-Based Attendance System	Takes attendance automatically using RFID tags.	Arduino UNO, RFID Reader, LCD Display, RFID Tags	SDG 4: Quality Education	9–12
757	Distance-Based Speed Control for Cars	Controls the speed of a car based on distance from obstacles.	Arduino UNO, Ultrasonic Sensor, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
758	Digital Rain Sensor	Detects rain and activates a water sprinkler system.	Arduino UNO, Rain Sensor, Water Pump	SDG 6: Clean Water and Sanitation	9–12
759	Temperature and Humidity Logging System	Logs temperature and humidity data to an SD card.	Arduino UNO, DHT11/DHT22, SD Card Module, LCD Display	SDG 13: Climate Action	9–12
760	Smart Gas Leak Detector	Detects gas leaks and sends an SMS alert to the user.	Arduino UNO, Gas Sensor (MQ-2), GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
761	Smart Traffic Light System	Controls traffic lights based on traffic density.	Arduino UNO, IR Sensors, Servo Motors, LED Lights	SDG 11: Sustainable Cities and Communities	9–12
762	Real-Time Clock-Based Data Logger	Logs data with timestamps.	Arduino UNO, RTC Module, SD Card Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
763	Arduino-Powered Smart Lock	Unlocks doors based on password input.	Arduino UNO, Keypad, Servo Motor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
764	Smart Fridge Temperature Monitoring	Monitors the temperature of your fridge and alerts when it's too high.	Arduino UNO, Temperature Sensor, GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
765	Arduino-Powered Laser Tag	Creates a laser tag game controlled by Arduino.	Arduino UNO, Laser Module, Receiver Module, Motors	SDG 4: Quality Education	9–12
766	Wi-Fi Controlled Smart Garden System	Monitors and waters plants remotely through a Wi-Fi-enabled app.	Arduino UNO, Wi-Fi Module, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12

767	Smart Home Energy Meter	Measures and displays energy consumption of home appliances.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
768	Automated Sunlight Tracker	Tracks the sun's position and adjusts solar panels for optimal energy.	Arduino UNO, Servo Motors, Light Sensors	SDG 7: Affordable and Clean Energy	9–12
769	Smart Automatic Door System	Opens and closes the door based on motion detection.	Arduino UNO, PIR Sensor, Servo Motor, Door Mechanism	SDG 9: Industry, Innovation, and Infrastructure	9–12
770	Solar-Powered Street Light	Automatically turns on street lights when it gets dark.	Arduino UNO, Light Sensor, Solar Panel, LED Lights	SDG 7: Affordable and Clean Energy	9–12
771	Voice-Controlled Smart Fan	Controls the fan speed or toggles the fan based on voice commands.	Arduino UNO, Voice Recognition Module, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
772	Arduino-Based Gesture-Controlled Car	Controls a car's movement based on hand gestures.	Arduino UNO, Accelerometer, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
773	Wireless Power Transfer System	Demonstrates wireless power transmission over short distances.	Arduino UNO, Inductive Coupling Coils, LED	SDG 7: Affordable and Clean Energy	9–12
774	Arduino-Powered Interactive Whiteboard	Creates an interactive whiteboard using touch sensors.	Arduino UNO, Touch Sensors, LCD Display	SDG 4: Quality Education	9–12
775	Soil pH and Moisture Measurement	Measures soil pH and moisture for better gardening.	Arduino UNO, pH Sensor, Soil Moisture Sensor, LCD Display	SDG 15: Life on Land	9–12
776	Automatic Fan Control System	Controls the fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
777	Wireless Heart Rate Monitor	Measures heart rate wirelessly and displays it on a screen.	Arduino UNO, Bluetooth Module, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
778	Motion-Activated Light	Turns on a light when motion is detected.	Arduino UNO, PIR Sensor, Relay, LED	SDG 7: Affordable and Clean Energy	6–12
779	Arduino-based Water Pump Control	Automates the control of a water pump based on water level.	Arduino UNO, Ultrasonic Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
780	Arduino-Powered Smart Thermostat	Controls room temperature using a thermostat.	Arduino UNO, Temperature Sensor, Relay, Heating/Cooling Device	SDG 7: Affordable and Clean Energy	9–12

781	Smart Dustbin with Automatic Lid	Opens and closes the lid of a dustbin automatically.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	6–12
782	Home Automation with Bluetooth	Controls home appliances through Bluetooth.	Arduino UNO, Bluetooth Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
783	RFID-Based Access Control System	Secures entry using RFID access cards.	Arduino UNO, RFID Reader, Relay, LCD Display	SDG 16: Peace, Justice, and Strong Institutions	9–12
784	Solar-Powered Arduino Weather Station	A weather station powered by solar energy.	Arduino UNO, Solar Panel, DHT11/DHT22, LCD Display	SDG 7: Affordable and Clean Energy	9–12
785	Arduino-Based Smart Car Parking System	Detects vacant parking spots and guides cars.	Arduino UNO, Ultrasonic Sensor, Servo Motor, LED Lights	SDG 11: Sustainable Cities and Communities	9–12
786	Smart Smoke Detector	Detects smoke and sends an alert message.	Arduino UNO, Smoke Sensor, GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
787	Smart Home Security System	Monitors and secures your home with motion detection and alerts.	Arduino UNO, PIR Sensor, GSM Module, Buzzer, Camera	SDG 16: Peace, Justice, and Strong Institutions	9–12
788	Arduino-Based Pet Feeder	Feeds pets automatically at set times.	Arduino UNO, Servo Motor, Clock Module, Food Container	SDG 2: Zero Hunger	9–12
789	Gesture-Controlled LED	Turns LEDs on/off based on hand gestures.	Arduino UNO, Accelerometer, LED Lights	SDG 9: Industry, Innovation, and Infrastructure	6–12
790	Traffic Signal Controller	Controls the traffic lights based on real-time traffic data.	Arduino UNO, IR Sensors, LEDs, Servo Motors	SDG 11: Sustainable Cities and Communities	9–12
791	Smart Watch with Step Counter	Measures and displays steps and time on a watch.	Arduino UNO, Accelerometer, OLED Display	SDG 3: Good Health and Well-being	9–12
792	IoT-Based Smart Plant Care System	Monitors and waters plants automatically via IoT.	Arduino UNO, Wi-Fi Module, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12
793	Arduino-based Voice Assistant	Controls devices with voice commands.	Arduino UNO, Voice Recognition Module, Relay, Buzzer	SDG 9: Industry, Innovation, and Infrastructure	9–12
794	Automated Blinds Control	Adjusts blinds according to the ambient light intensity.	Arduino UNO, LDR, Servo Motors	SDG 7: Affordable and Clean Energy	9–12
795	Arduino-Based Object Counter	Counts the number of objects passing through a sensor.	Arduino UNO, IR Sensor, Counter Display	SDG 12: Responsible Consumption and Production	6–12

796	Arduino-Based Bluetooth Car	Controls a car using Bluetooth from a mobile device.	Arduino UNO, Bluetooth Module, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
797	Smart Water Tank System	Monitors the water level and automatically fills the tank when low.	Arduino UNO, Water Level Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
798	Light-Activated Fan Control	Turns on the fan when the light intensity increases.	Arduino UNO, LDR, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
799	Automatic Door Lock System	Locks or unlocks a door automatically based on RFID or password.	Arduino UNO, RFID Reader, Keypad, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
800	Arduino-Powered Solar Tracking System	Tracks the sun's movement to optimize solar panel efficiency.	Arduino UNO, Servo Motors, Light Sensor, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
801	Voice-Controlled Home Automation	Controls home appliances using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
802	Arduino-Powered Smart Gas Detector	Detects the presence of gas and triggers an alarm.	Arduino UNO, Gas Sensor (MQ-2), Buzzer, LCD Display	SDG 3: Good Health and Well-being	9–12
803	Wireless Water Quality Monitoring	Monitors and displays water quality data on a smartphone.	Arduino UNO, pH Sensor, Temperature Sensor, Bluetooth Module	SDG 6: Clean Water and Sanitation	9–12
804	Smart Irrigation System	Waters plants based on soil moisture data.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 2: Zero Hunger	9–12
805	Automated Pet Feeder	Feeds pets automatically based on scheduled time.	Arduino UNO, Servo Motor, RTC Module, Food Container	SDG 2: Zero Hunger	6–12
806	Bluetooth-Based Temperature Controller	Controls room temperature using a mobile app.	Arduino UNO, Bluetooth Module, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
807	Light-Activated Fan	Turns on the fan when the light intensity increases.	Arduino UNO, LDR, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
808	Arduino-Powered Automated Water Tank	Monitors and controls the water tank level.	Arduino UNO, Ultrasonic Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
809	Smart Home Energy Meter	Monitors and logs the energy consumption of various home appliances.	Arduino UNO, Current Sensor, LCD Display, SD Card Module	SDG 7: Affordable and Clean Energy	9–12

810	Gesture-Controlled Home Automation	Controls home appliances based on hand gestures.	Arduino UNO, Accelerometer, Relay, Home Appliances	SDG 9: Industry, Innovation, and Infrastructure	9–12
811	Voice-Controlled Arduino Car	Controls a car using voice commands.	Arduino UNO, Voice Recognition Module, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
812	Automatic Room Light Controller	Turns on/off the light based on motion detection.	Arduino UNO, PIR Sensor, Relay, LED Light	SDG 7: Affordable and Clean Energy	6–12
813	Smart Trash Bin	Automatically opens the trash bin lid when you approach.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	6–12
814	Smart Water Leak Detector	Detects water leaks and sends an alert message.	Arduino UNO, Water Leak Sensor, GSM Module, Buzzer	SDG 6: Clean Water and Sanitation	9–12
815	Arduino-Based Solar Panel Tracking System	Tracks the sun's movement to optimize solar energy harvesting.	Arduino UNO, Servo Motors, Light Sensor, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
816	Automated Fan Control System	Controls the fan speed based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
817	Smart Plant Watering System	Waters plants based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	6–12
818	Real-Time Temperature and Humidity Logger	Logs temperature and humidity data and displays it.	Arduino UNO, DHT11/DHT22, SD Card Module, LCD Display	SDG 13: Climate Action	9–12
819	Arduino-Based Smart Door Lock	Unlocks the door with a password or RFID card.	Arduino UNO, Keypad, RFID Reader, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
820	Smart Refrigerator Temperature Monitor	Monitors the temperature of a refrigerator and sends alerts.	Arduino UNO, Temperature Sensor, GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
821	Solar-Powered Arduino Car	A car that runs on solar energy.	Arduino UNO, Solar Panel, Motors, Car Chassis	SDG 7: Affordable and Clean Energy	9–12
822	Motion-Based Security System	Activates the security alarm based on motion detection.	Arduino UNO, PIR Sensor, Buzzer, Camera	SDG 16: Peace, Justice, and Strong Institutions	9–12
823	Smart Smoke Detector	Detects smoke and triggers an alarm or sends an SMS alert.	Arduino UNO, Smoke Sensor, GSM Module, Buzzer	SDG 3: Good Health and Well-being	9–12
824	Wi-Fi Controlled Home Automation System	Controls home appliances remotely using Wi-Fi.	Arduino UNO, Wi-Fi Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12

825	Smart Traffic Light Control	Controls traffic light patterns based on traffic flow.	Arduino UNO, IR Sensors, Servo Motors, LED Lights	SDG 11: Sustainable Cities and Communities	9–12
826	Automatic Watering System for Garden	Waters plants based on moisture levels in the soil.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	6–12
827	Arduino-Based Smart Mirror	Displays the time, weather, and other useful information.	Arduino UNO, LCD Display, Camera, Bluetooth Module	SDG 9: Industry, Innovation, and Infrastructure	9–12
828	Bluetooth-Based Temperature Monitoring	Monitors and controls temperature using Bluetooth.	Arduino UNO, Bluetooth Module, Temperature Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
829	Smart Home Energy Saver	Controls home appliances based on energy usage.	Arduino UNO, Energy Meter, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
830	Arduino-Based Smart Fan Control	Controls fan speed based on temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
831	Intelligent Parking System	Detects empty parking spaces and guides vehicles.	Arduino UNO, Ultrasonic Sensor, Servo Motor, LED	SDG 11: Sustainable Cities and Communities	9–12
832	Automated Plant Growth Monitor	Monitors and controls plant growth by adjusting light and water levels.	Arduino UNO, Light Sensor, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12
833	Arduino-Powered Car Parking Alert System	Sends alerts when a parking space is occupied or vacant.	Arduino UNO, Ultrasonic Sensor, GSM Module, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
834	Smart Energy Meter	Measures and displays energy consumption in a home.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
835	Remote Controlled Home Automation	Controls appliances using a remote control.	Arduino UNO, IR Receiver, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
836	Bluetooth-Enabled Car Parking System	Detects car parking availability through Bluetooth.	Arduino UNO, Bluetooth Module, Ultrasonic Sensor, LED	SDG 11: Sustainable Cities and Communities	9–12
837	Solar-Powered Home Automation System	Automates home appliances using solar power.	Arduino UNO, Solar Panel, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
838	Real-Time Soil Moisture Monitoring System	Monitors soil moisture levels and triggers watering if needed.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	6–12

839	Automatic Light Control System	Controls room lights based on ambient light levels.	Arduino UNO, LDR, Relay, LED Lights	SDG 7: Affordable and Clean Energy	6–12
840	Arduino-Based Home Security System	Provides security through motion detection and alarm activation.	Arduino UNO, PIR Sensor, GSM Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
841	Smart Temperature and Humidity Logger	Logs temperature and humidity data over time.	Arduino UNO, DHT11/DHT22, SD Card Module, LCD Display	SDG 13: Climate Action	9–12
842	Automated Smart Garden System	Automatically waters plants and adjusts light intensity.	Arduino UNO, Light Sensor, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12
843	Arduino-Powered Smart Dustbin	Detects waste level and opens the lid automatically.	Arduino UNO, Ultrasonic Sensor, Servo Motor	SDG 12: Responsible Consumption and Production	6–12
844	Real-Time Air Quality Monitoring	Monitors and displays air quality data in real-time.	Arduino UNO, Air Quality Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
845	Smart Water Conservation System	Monitors and conserves water usage based on real-time data.	Arduino UNO, Flow Sensor, LCD Display, Water Pump	SDG 6: Clean Water and Sanitation	9–12
846	Bluetooth-Based Lighting Control System	Controls the lighting in your home using Bluetooth.	Arduino UNO, Bluetooth Module, Relay, LED Lights	SDG 7: Affordable and Clean Energy	9–12
847	Smart Sleep Monitoring System	Monitors sleep patterns and provides feedback.	Arduino UNO, Accelerometer, LCD Display	SDG 3: Good Health and Well-being	9–12
848	Voice-Controlled Home Lighting	Controls the lighting system using voice commands.	Arduino UNO, Voice Recognition Module, Relay, LED Lights	SDG 9: Industry, Innovation, and Infrastructure	9–12
849	Solar-Powered Smart Fan	Runs the fan using solar energy and adjusts speed based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
850	Automated Smart Home Energy System	Monitors and optimizes energy usage for home appliances.	Arduino UNO, Energy Meter, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
851	Automated Garden Irrigation System	Automatically waters plants based on soil moisture levels.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	6–12
852	Temperature Controlled Fan	Turns on/off the fan based on room temperature.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
853	Voice-Controlled Home Automation	Controls appliances using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12

854	Bluetooth-Controlled Robotic Arm	Controls a robotic arm using a smartphone app.	Arduino UNO, Bluetooth Module, Servo Motors, Robotic Arm	SDG 9: Industry, Innovation, and Infrastructure	9–12
855	Water Level Detection System	Detects and alerts when the water level in a tank is too high or low.	Arduino UNO, Ultrasonic Sensor, Buzzer, LCD Display	SDG 6: Clean Water and Sanitation	6–12
856	Smart Home Lighting System	Automatically adjusts lighting based on time of day or occupancy.	Arduino UNO, PIR Sensor, Relay, LED Lights	SDG 7: Affordable and Clean Energy	9–12
857	Arduino-Based Automatic Curtain System	Opens or closes curtains based on light intensity or time of day.	Arduino UNO, LDR, Servo Motors	SDG 7: Affordable and Clean Energy	9–12
858	Arduino-Powered Smart Lock	Locks/unlocks doors using a keypad or RFID card.	Arduino UNO, Keypad, RFID Reader, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
859	Smart Dustbin with Waste Level Detection	Automatically opens the dustbin lid based on waste level.	Arduino UNO, Ultrasonic Sensor, Servo Motor, Dustbin	SDG 12: Responsible Consumption and Production	6–12
860	Voice-Controlled Car	Controls a toy car using voice commands.	Arduino UNO, Voice Recognition Module, Motors, Car Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
861	Arduino-Powered Solar Battery Charger	Charges a battery using solar power.	Arduino UNO, Solar Panel, Charge Controller, Battery	SDG 7: Affordable and Clean Energy	9–12
862	Arduino-Based Home Surveillance System	Provides home security through motion detection and video streaming.	Arduino UNO, PIR Sensor, Camera Module, Wi-Fi Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
863	Smart Water Quality Monitoring System	Monitors the quality of water in real-time and displays data.	Arduino UNO, pH Sensor, Temperature Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
864	Bluetooth-Controlled Home Appliances	Controls appliances remotely through Bluetooth.	Arduino UNO, Bluetooth Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
865	Automated Plant Growth System	Adjusts the environmental conditions for optimal plant growth.	Arduino UNO, Light Sensor, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12
866	Smart Temperature and Humidity Control	Regulates temperature and humidity in a room automatically.	Arduino UNO, DHT11/DHT22, Relay, Fan, Humidifier	SDG 13: Climate Action	9–12
867	Smart Air Purifier	Purifies the air based on pollution levels detected.	Arduino UNO, Air Quality Sensor, Fan, Filter	SDG 3: Good Health and Well-being	9–12

868	Solar-Powered Irrigation System	Irrigates plants using solar power based on moisture levels.	Arduino UNO, Solar Panel, Soil Moisture Sensor, Water Pump	SDG 7: Affordable and Clean Energy	9–12
869	Automated Fish Tank Feeder	Feeds fish at scheduled times automatically.	Arduino UNO, Servo Motor, RTC Module, Fish Food	SDG 2: Zero Hunger	6–12
870	Real-Time Object Tracking System	Tracks moving objects using sensors and displays data.	Arduino UNO, Ultrasonic Sensor, Servo Motors	SDG 9: Industry, Innovation, and Infrastructure	9–12
871	Smart Home Security System with Camera	Provides home security using motion detection and camera feed.	Arduino UNO, PIR Sensor, Camera Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
872	Solar-Powered Street Light System	Lights street lights based on sunlight levels using solar energy.	Arduino UNO, Solar Panel, LDR, LED Light	SDG 7: Affordable and Clean Energy	9–12
873	Gesture-Controlled LED Display	Displays patterns or messages based on hand gestures.	Arduino UNO, Accelerometer, LED Matrix Display	SDG 9: Industry, Innovation, and Infrastructure	9–12
874	Smart Solar Tracker System	Tracks the sun's position to optimize solar energy collection.	Arduino UNO, Servo Motors, Light Sensor, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
875	Water Flow Monitoring System	Monitors water flow in a system and alerts if flow is too high/low.	Arduino UNO, Flow Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
876	Automated Street Light System	Turns on/off street lights based on ambient light levels.	Arduino UNO, LDR, Relay, Street Lights	SDG 7: Affordable and Clean Energy	9–12
877	Arduino-Based Smart Irrigation System	Automatically waters crops based on soil moisture and temperature.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, Water Pump	SDG 6: Clean Water and Sanitation	6–12
878	Smart Temperature Logging System	Logs and displays temperature over time.	Arduino UNO, Temperature Sensor, SD Card Module, LCD Display	SDG 13: Climate Action	9–12
879	Arduino-Powered Digital Thermometer	Displays temperature digitally on an LCD screen.	Arduino UNO, Temperature Sensor, LCD Display	SDG 13: Climate Action	6–12
880	Home Automation with Voice Commands	Controls home appliances through voice commands.	Arduino UNO, Voice Recognition Module, Relay, Home Appliances	SDG 7: Affordable and Clean Energy	9–12
881	Gesture-Controlled Music Player	Plays music based on hand gestures.	Arduino UNO, Accelerometer, MP3 Player Module	SDG 9: Industry, Innovation, and Infrastructure	9–12

882	Solar-Powered Fan Control System	Uses solar power to control the speed of a fan based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
883	Automated Pet Feeder System	Feeds pets at scheduled times automatically.	Arduino UNO, Servo Motor, RTC Module, Pet Food	SDG 2: Zero Hunger	6–12
884	Bluetooth-Enabled Health Monitoring System	Monitors health metrics such as heart rate and displays data.	Arduino UNO, Bluetooth Module, Heart Rate Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
885	Smart Security Camera System	Provides home security with motion detection and camera feed.	Arduino UNO, PIR Sensor, Camera Module, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
886	Automated Window Blinds	Opens/closes window blinds based on light intensity.	Arduino UNO, LDR, Servo Motors	SDG 7: Affordable and Clean Energy	9–12
887	Solar-Powered Water Pump	Powers a water pump using solar energy.	Arduino UNO, Solar Panel, Water Pump	SDG 7: Affordable and Clean Energy	9–12
888	Smart Health Monitoring System	Monitors heart rate, temperature, and other health metrics.	Arduino UNO, Pulse Sensor, Temperature Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
889	Smart Plant Monitoring System	Monitors and controls plant watering based on environmental conditions.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, Water Pump	SDG 2: Zero Hunger	6–12
890	Bluetooth-Enabled Smart Door Lock	Unlocks doors using a Bluetooth-enabled smartphone.	Arduino UNO, Bluetooth Module, Servo Motor, Keypad	SDG 16: Peace, Justice, and Strong Institutions	9–12
891	Temperature and Humidity Control System	Controls the room temperature and humidity levels.	Arduino UNO, DHT11/DHT22, Relay, Fan, Humidifier	SDG 13: Climate Action	9–12
892	IoT-Based Smart Meter	Monitors electricity consumption and displays usage data online.	Arduino UNO, Wi-Fi Module, Energy Meter, LCD Display	SDG 7: Affordable and Clean Energy	9–12
893	Automatic Rainwater Harvesting System	Collects and stores rainwater based on weather conditions.	Arduino UNO, Rain Sensor, Water Pump, Storage Tank	SDG 6: Clean Water and Sanitation	9–12
894	Soil pH Level Monitoring System	Measures and monitors soil pH levels for plant growth.	Arduino UNO, pH Sensor, LCD Display	SDG 2: Zero Hunger	9–12
895	Smart Refrigerator Temperature Control	Adjusts the refrigerator temperature based on internal readings.	Arduino UNO, Temperature Sensor, Relay, Refrigerator	SDG 12: Responsible Consumption and Production	9–12

896	Smart Water Tank Monitoring System	Monitors water levels in tanks and provides alerts.	Arduino UNO, Ultrasonic Sensor, Buzzer, LCD Display	SDG 6: Clean Water and Sanitation	6–12
897	Automated Greenhouse System	Controls lighting, watering, and ventilation in a greenhouse.	Arduino UNO, Light Sensor, Soil Moisture Sensor, Water Pump	SDG 2: Zero Hunger	9–12
898	Smart Traffic Light System	Automatically controls traffic lights based on traffic density.	Arduino UNO, Ultrasonic Sensors, Traffic Lights	SDG 11: Sustainable Cities and Communities	9–12
899	Arduino-Based Air Purifier	Cleans the air using a fan and air filter, based on air quality.	Arduino UNO, Air Quality Sensor, Fan, Filter	SDG 3: Good Health and Well-being	9–12
900	Solar-Powered Automatic Fan Control	Powers a fan using solar energy based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
901	Smart Traffic Monitoring System	Monitors traffic density and provides real-time data.	Arduino UNO, Ultrasonic Sensors, LCD Display, Wi-Fi Module	SDG 11: Sustainable Cities and Communities	9–12
902	Automated Plant Growth Light System	Controls plant growth light based on light intensity.	Arduino UNO, LDR, Relay, LED Lights	SDG 2: Zero Hunger	9–12
903	Arduino-Powered Smart Waste Sorting System	Automatically sorts waste into categories like plastic, paper, and organic.	Arduino UNO, Color Sensor, Servo Motors, Waste Containers	SDG 12: Responsible Consumption and Production	9–12
904	Voice-Controlled Home Automation	Controls home appliances and systems using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Appliances	SDG 7: Affordable and Clean Energy	9–12
905	Temperature and Humidity Monitoring System	Displays real-time temperature and humidity data.	Arduino UNO, DHT11/DHT22, LCD Display	SDG 13: Climate Action	6–12
906	Automated Shoe Cleaning Machine	Cleans shoes automatically with sensors.	Arduino UNO, Servo Motors, Ultrasonic Sensor, Cleaning Brushes	SDG 12: Responsible Consumption and Production	9–12
907	Smart Irrigation System with Weather Forecast	Adjusts watering based on weather forecast.	Arduino UNO, Wi-Fi Module, Soil Moisture Sensor, Weather API	SDG 6: Clean Water and Sanitation	9–12
908	Automated Fruit Picking Robot	A robot that picks fruits based on size and ripeness.	Arduino UNO, Servo Motors, Camera Module, Robotics Arm	SDG 2: Zero Hunger	9–12
909	Solar-Powered Garden Light System	Provides light to the garden using solar power.	Arduino UNO, Solar Panel, LED Lights, LDR	SDG 7: Affordable and Clean Energy	6–12

910	Wireless Soil Moisture Monitoring	Monitors soil moisture levels and sends data wirelessly.	Arduino UNO, Soil Moisture Sensor, Wi-Fi Module, LCD Display	SDG 6: Clean Water and Sanitation	9–12
911	Heart Rate Monitoring System	Measures heart rate and displays data on a screen.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
912	Arduino-Based Smart Light Control	Controls lighting based on occupancy and ambient light.	Arduino UNO, PIR Sensor, LDR, Relay, LED Lights	SDG 7: Affordable and Clean Energy	9–12
913	Automatic Door Opener	Opens a door automatically when a person is detected.	Arduino UNO, PIR Sensor, Servo Motor, Door Mechanism	SDG 9: Industry, Innovation, and Infrastructure	9–12
914	Arduino-Powered Smart Fan	Adjusts the speed of a fan based on temperature readings.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
915	Real-Time Pollution Monitoring System	Monitors pollution levels and displays real-time data.	Arduino UNO, Air Quality Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
916	Automatic Pet Watering System	Automatically provides water to pets when needed.	Arduino UNO, Water Pump, Relay, Water Tank	SDG 6: Clean Water and Sanitation	6–12
917	Smart Solar-Powered Water Tank Heater	Heats water using solar power, based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Water Heater	SDG 7: Affordable and Clean Energy	9–12
918	Smart Wheelchair with Obstacle Avoidance	A wheelchair that avoids obstacles using sensors.	Arduino UNO, Ultrasonic Sensors, Motors, Wheelchair Frame	SDG 3: Good Health and Well-being	9–12
919	Automated Garden Fertilizer System	Automatically applies fertilizer based on soil nutrient levels.	Arduino UNO, Soil Nutrient Sensor, Water Pump, Fertilizer	SDG 2: Zero Hunger	9–12
920	Smart Traffic Light with Pedestrian Control	Controls pedestrian lights based on the presence of pedestrians.	Arduino UNO, PIR Sensor, Traffic Lights	SDG 11: Sustainable Cities and Communities	9–12
921	Arduino-Based Smart Water Filter	Filters water automatically when contaminants are detected.	Arduino UNO, Water Quality Sensor, Pump, Filter	SDG 6: Clean Water and Sanitation	9–12
922	Automated Solar-Powered Greenhouse	Controls temperature, humidity, and light inside a greenhouse using solar power.	Arduino UNO, Solar Panel, Temperature Sensor, Humidity Sensor	SDG 2: Zero Hunger	9–12
923	Arduino-Powered Smart Air Conditioner	Controls room temperature using air conditioning.	Arduino UNO, Temperature Sensor, Relay, AC Unit	SDG 7: Affordable and Clean Energy	9–12

924	IoT-Based Water Quality Monitoring System	Monitors water quality in real-time and sends data to cloud.	Arduino UNO, pH Sensor, Wi-Fi Module, LCD Display	SDG 6: Clean Water and Sanitation	9–12
925	Arduino-Based Smart Helmet	Provides safety and health monitoring for bikers using sensors.	Arduino UNO, Accelerometer, GPS Module, Bluetooth Module	SDG 3: Good Health and Well-being	9–12
926	Automatic Laundry Folding System	Folds clothes automatically after washing.	Arduino UNO, Servo Motors, Sensors, Folding Mechanism	SDG 12: Responsible Consumption and Production	9–12
927	Arduino-Based Smoke Detector	Detects smoke and triggers an alarm for safety.	Arduino UNO, Smoke Sensor, Buzzer	SDG 3: Good Health and Well-being	9–12
928	Solar-Powered Water Purification System	Purifies water using solar energy.	Arduino UNO, Solar Panel, Water Filter, Pump	SDG 6: Clean Water and Sanitation	9–12
929	Smart Garbage Bin with Fill Detection	Monitors garbage levels and alerts when the bin is full.	Arduino UNO, Ultrasonic Sensor, Wi-Fi Module, Motor	SDG 12: Responsible Consumption and Production	9–12
930	Bluetooth-Based Home Security System	Provides home security with real-time alerts via Bluetooth.	Arduino UNO, Bluetooth Module, PIR Sensor, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
931	Arduino-Powered Smart Water Meter	Measures water usage and displays the data.	Arduino UNO, Water Flow Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
932	Smart Door Lock System with Biometric Authentication	Unlocks doors with a fingerprint sensor for security.	Arduino UNO, Fingerprint Sensor, Servo Motor, Relay	SDG 16: Peace, Justice, and Strong Institutions	9–12
933	Solar-Powered Soil Moisture Monitoring System	Uses solar power to monitor soil moisture levels.	Arduino UNO, Solar Panel, Soil Moisture Sensor, Wi-Fi Module	SDG 6: Clean Water and Sanitation	9–12
934	Arduino-Based Heart Rate Sensor	Measures and displays the heart rate on an LCD screen.	Arduino UNO, Pulse Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
935	Smart Blind Control System	Opens and closes window blinds based on ambient light.	Arduino UNO, LDR, Servo Motor	SDG 7: Affordable and Clean Energy	9–12
936	Automated Trash Compactor	Compresses trash automatically to save space.	Arduino UNO, Servo Motors, Sensors	SDG 12: Responsible Consumption and Production	9–12
937	Arduino-Powered Smart Refrigerator	Controls the temperature of a refrigerator based on usage.	Arduino UNO, Temperature Sensor, Relay, Refrigerator	SDG 12: Responsible Consumption and Production	9–12

938	Automated Rainwater Collection System	Collects and stores rainwater for later use.	Arduino UNO, Rain Sensor, Water Pump, Storage Tank	SDG 6: Clean Water and Sanitation	9–12
939	Smart Solar-Powered Fan	Runs a fan using solar power, controlled based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
940	Gesture-Controlled Car	Controls a car using hand gestures.	Arduino UNO, Accelerometer, Motors, Car Model	SDG 9: Industry, Innovation, and Infrastructure	9–12
941	Automated Pet Feeder with Scheduler	Feeds pets at specific times automatically.	Arduino UNO, Servo Motor, RTC Module, Pet Food Dispenser	SDG 2: Zero Hunger	6–12
942	Arduino-Powered Smart Weather Station	Displays real-time weather data including temperature, humidity, etc.	Arduino UNO, Temperature Sensor, Humidity Sensor, LCD Display	SDG 13: Climate Action	9–12
943	Solar-Powered Home Energy Meter	Measures solar power generation and home energy consumption.	Arduino UNO, Solar Panel, Energy Meter, LCD Display	SDG 7: Affordable and Clean Energy	9–12
944	Arduino-Based Voice-Controlled Robot	Moves a robot based on voice commands.	Arduino UNO, Voice Recognition Module, Motors, Robot Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
945	Smart Power Consumption Monitor	Monitors and displays real-time power consumption of home appliances.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
946	Solar-Powered Automatic Fan Control	Runs a fan using solar power and adjusts speed based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12
947	Automated Greenhouse Light Control	Controls lights in a greenhouse based on ambient light levels.	Arduino UNO, LDR, Relay, Grow Lights	SDG 2: Zero Hunger	9–12
948	IoT-Based Air Quality Monitoring System	Monitors air quality and sends alerts to the cloud.	Arduino UNO, Air Quality Sensor, Wi-Fi Module, LCD Display	SDG 3: Good Health and Well-being	9–12
949	Voice-Controlled Car Parking System	Guides cars into parking spaces using voice commands.	Arduino UNO, Voice Recognition Module, Motors, Ultrasonic Sensors	SDG 11: Sustainable Cities and Communities	9–12
950	Automated Plant Growth Monitoring System	Monitors and controls light, temperature, and humidity for plant growth.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, Humidity Sensor	SDG 2: Zero Hunger	9–12

951	Smart Home Temperature Control	Controls temperature in a room automatically based on the time of day.	Arduino UNO, Temperature Sensor, Relay, Fan	SDG 7: Affordable and Clean Energy	9–12
952	IoT-Based Smart Watering System	Automatically waters plants based on soil moisture levels.	Arduino UNO, Wi-Fi Module, Soil Moisture Sensor, Water Pump	SDG 6: Clean Water and Sanitation	9–12
953	Arduino-Powered Automated Lighting System	Automatically adjusts lighting based on time of day and occupancy.	Arduino UNO, LDR, PIR Sensor, LED Lights, Relay	SDG 7: Affordable and Clean Energy	9–12
954	Arduino-Powered Soil Fertility Analyzer	Analyzes soil fertility and provides results.	Arduino UNO, pH Sensor, Soil Nutrient Sensor, LCD Display	SDG 2: Zero Hunger	9–12
955	Smart Air Freshener System	Dispenses air freshener based on air quality.	Arduino UNO, Air Quality Sensor, Servo, Air Freshener	SDG 3: Good Health and Well-being	9–12
956	Automatic Fish Feeder	Feeds fish in an aquarium automatically.	Arduino UNO, Servo Motor, RTC Module, Fish Food Dispenser	SDG 14: Life Below Water	6–12
957	Arduino-Powered Smart Vacuum Cleaner	Vacuums a room and avoids obstacles autonomously.	Arduino UNO, Ultrasonic Sensors, DC Motors, Robot Chassis	SDG 9: Industry, Innovation, and Infrastructure	9–12
958	Arduino-Based Plant Health Monitoring	Monitors plant health by measuring soil moisture, temperature, and light.	Arduino UNO, Soil Moisture Sensor, Temperature Sensor, LDR	SDG 2: Zero Hunger	9–12
959	Smart Home Energy Meter	Measures and displays real-time home energy consumption.	Arduino UNO, Current Sensor, LCD Display	SDG 7: Affordable and Clean Energy	9–12
960	Bluetooth-Based Smart Doorbell	Rings a doorbell and sends an alert to a smartphone via Bluetooth.	Arduino UNO, Bluetooth Module, Buzzer, LED	SDG 16: Peace, Justice, and Strong Institutions	9–12
961	Solar-Powered Automatic Light System	Controls lights based on sunlight and automatically switches off at night.	Arduino UNO, Solar Panel, LDR, Relay	SDG 7: Affordable and Clean Energy	9–12
962	Automated Greenhouse Temperature Control	Regulates temperature inside a greenhouse for optimal plant growth.	Arduino UNO, Temperature Sensor, Heater, Fan	SDG 2: Zero Hunger	9–12
963	Smart Waste Management System	Monitors the waste levels in a bin and notifies when full.	Arduino UNO, Ultrasonic Sensor, Wi-Fi Module, Motor	SDG 12: Responsible Consumption and Production	9–12
964	Gesture-Controlled Light System	Controls lights using hand gestures.	Arduino UNO, Accelerometer, Relay, LED Lights	SDG 7: Affordable and Clean Energy	9–12

965	Voice-Controlled Smart Home System	Controls smart appliances using voice commands.	Arduino UNO, Voice Recognition Module, Relay, Smart Appliances	SDG 7: Affordable and Clean Energy	9–12
966	Arduino-Powered Smart Irrigation System	Waters plants based on soil moisture and weather forecast.	Arduino UNO, Soil Moisture Sensor, Wi-Fi Module, Water Pump	SDG 6: Clean Water and Sanitation	9–12
967	Temperature-Controlled Fan System	Operates a fan based on the room temperature.	Arduino UNO, Temperature Sensor, Fan, Relay	SDG 7: Affordable and Clean Energy	9–12
968	Arduino-Powered Solar Tracker	Tracks the position of the sun and adjusts solar panels accordingly.	Arduino UNO, Servo Motors, Light Sensor, Solar Panel	SDG 7: Affordable and Clean Energy	9–12
969	Automated Rainwater Harvesting System	Collects and stores rainwater automatically.	Arduino UNO, Rain Sensor, Water Pump, Storage Tank	SDG 6: Clean Water and Sanitation	9–12
970	Smart Bicycle Lock	Secures a bicycle using a fingerprint sensor for authentication.	Arduino UNO, Fingerprint Sensor, Servo, Buzzer	SDG 16: Peace, Justice, and Strong Institutions	9–12
971	Arduino-Based Smart Mailbox	Notifies when a new mail has arrived in the mailbox.	Arduino UNO, IR Sensor, Buzzer, LCD Display	SDG 16: Peace, Justice, and Strong Institutions	9–12
972	Smart Plant Watering System	Waters plants based on real-time soil moisture data.	Arduino UNO, Soil Moisture Sensor, Water Pump, Relay	SDG 6: Clean Water and Sanitation	9–12
973	Solar-Powered Home Light System	Powers home lights using solar energy.	Arduino UNO, Solar Panel, Relay, LED Lights	SDG 7: Affordable and Clean Energy	9–12
974	Arduino-Based Anti-Theft System	Provides security for valuable items with an alarm system.	Arduino UNO, Motion Sensor, Buzzer, GSM Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
975	Smart Home Security Camera	Monitors a home and sends alerts when motion is detected.	Arduino UNO, Camera Module, PIR Sensor, Wi-Fi Module	SDG 16: Peace, Justice, and Strong Institutions	9–12
976	Smart Smartwatch with Heart Rate Monitor	Measures heart rate and displays it on a smartwatch interface.	Arduino UNO, Pulse Sensor, OLED Display, Bluetooth Module	SDG 3: Good Health and Well-being	9–12
977	Automated Temperature-Controlled Room	Regulates room temperature based on preset thresholds.	Arduino UNO, Temperature Sensor, Relay, Heater/Fan	SDG 7: Affordable and Clean Energy	9–12
978	Smart Solar-Powered Fan	Operates a fan powered by solar energy, adjusting speed based on temperature.	Arduino UNO, Solar Panel, Temperature Sensor, Fan	SDG 7: Affordable and Clean Energy	9–12

979	Smart Shopping Cart with Weight Sensor	Weighs items placed in a shopping cart and calculates the total price.	Arduino UNO, Load Cell, LCD Display, Keypad	SDG 12: Responsible Consumption and Production	9–12
980	Smart Car Parking System with Bluetooth	Allows users to park cars using Bluetooth commands.	Arduino UNO, Bluetooth Module, Servo Motors, Ultrasonic Sensor	SDG 11: Sustainable Cities and Communities	9–12
981	IoT-Based Weather Prediction System	Monitors weather conditions and sends alerts based on predictions.	Arduino UNO, Temperature Sensor, Humidity Sensor, Wi-Fi Module	SDG 13: Climate Action	9–12
982	Smart Refrigerator with Temperature Control	Controls and maintains optimal temperature in a refrigerator.	Arduino UNO, Temperature Sensor, Relay, LCD Display	SDG 12: Responsible Consumption and Production	9–12
983	Automated Street Light System with LDR	Automatically turns on street lights based on ambient light levels.	Arduino UNO, LDR, Relay, Street Light	SDG 7: Affordable and Clean Energy	9–12
984	Smart Home Automation with IR Remote	Controls home appliances using an IR remote.	Arduino UNO, IR Receiver, Relay, IR Remote	SDG 7: Affordable and Clean Energy	9–12
985	Arduino-Based Smart Glasses	Displays real-time information on a pair of smart glasses.	Arduino UNO, OLED Display, Bluetooth Module, Frame	SDG 9: Industry, Innovation, and Infrastructure	9–12
986	Automatic Vehicle Speed Detector	Measures vehicle speed and triggers an alert if over the limit.	Arduino UNO, Ultrasonic Sensor, Speed Radar, Buzzer	SDG 11: Sustainable Cities and Communities	9–12
987	Voice-Controlled Wheelchair	Allows movement of a wheelchair via voice commands.	Arduino UNO, Voice Recognition Module, DC Motors	SDG 3: Good Health and Well-being	9–12
988	Solar-Powered Smart Lamp	Powers a lamp using solar energy and adjusts brightness based on daylight.	Arduino UNO, Solar Panel, LDR, LED Lamp	SDG 7: Affordable and Clean Energy	9–12
989	Smart Air Quality Monitoring System	Monitors and displays air quality in a room.	Arduino UNO, Air Quality Sensor, LCD Display	SDG 3: Good Health and Well-being	9–12
990	Home Energy Management System	Monitors and controls energy consumption in a home.	Arduino UNO, Current Sensor, Relay, LCD Display	SDG 7: Affordable and Clean Energy	9–12
991	Water Consumption Tracker	Measures and displays real-time water usage in a household.	Arduino UNO, Water Flow Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
992	Automated Garden Watering System	Waters plants automatically based on soil moisture level.	Arduino UNO, Soil Moisture Sensor, Water Pump	SDG 6: Clean Water and Sanitation	9–12

993	Smart Bicycle Tracker	Tracks and monitors the speed and location of a bicycle.	Arduino UNO, GPS Module, Speed Sensor, LCD Display	SDG 11: Sustainable Cities and Communities	9–12
994	Arduino-Based Personal Weather Station	Displays temperature, humidity, and other weather conditions.	Arduino UNO, Temperature Sensor, Humidity Sensor, LCD Display	SDG 13: Climate Action	9–12
995	Smart Bike Lock with Fingerprint	Locks/unlocks a bike using fingerprint authentication.	Arduino UNO, Fingerprint Sensor, Servo Motor	SDG 16: Peace, Justice, and Strong Institutions	9–12
996	Smart Plant Growth System	Monitors and adjusts the environment for plant growth.	Arduino UNO, Soil Moisture Sensor, Light Sensor, LCD Display	SDG 2: Zero Hunger	9–12
997	Solar-Powered IoT-based Smart Fan	Operates a fan using solar power and IoT technology.	Arduino UNO, Solar Panel, Wi-Fi Module, Fan	SDG 7: Affordable and Clean Energy	9–12
998	Autonomous Smart Car with Obstacle Avoidance	Detects obstacles and navigates autonomously.	Arduino UNO, Ultrasonic Sensor, DC Motors, Servo	SDG 9: Industry, Innovation, and Infrastructure	9–12
999	Water Purification Monitoring System	Monitors the water purification process in real-time.	Arduino UNO, Water Quality Sensor, LCD Display	SDG 6: Clean Water and Sanitation	9–12
1000	Smart Emergency Alert System	Sends emergency alerts based on various parameters like smoke or fire.	Arduino UNO, Smoke Sensor, Fire Sensor, GSM Module	SDG 16: Peace, Justice, and Strong Institutions	9–12