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Chapter number	Software required (With version)	Free/Proprietary	Download links to the software	Hardware/board required	OS required
8	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	Arduino Uno or compatible board, HC-SR501 motion sensor, Jumper wires, LED, One breadboard	Windows, macOS, Linux
9	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	Arduino Uno or compatible board, DHT11 temperature/humidity sensor, One MH-RD raindrop sensor, One 4.7K resistor, Jumper wires, One breadboard	Windows, macOS, Linux
10	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	Arduino Uno or compatible board, One crash sensor, One obstacle avoidance sensor, One EZ1 Ultrasonic sensor, One 4.7K resistor, Jumper wires, One breadboard	Windows, macOS, Linux
11	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One RGB LED either a common cathode or a common anode, Three 330 ohm resistors, One Keystudio 40 RGB LED 2812 Pixel Matrix shield, Jumper wires, One breadboard	Windows, macOS, Linux

12	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One piezo buzzer, One 8 ohm speaker, Jumper wires, One breadboard	Windows, macOS, Linux
13	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One Nokia 5110 LCD, Four 10K ohm resistors, One 1K ohm resistor, Jumper wires, One breadboard	Windows, macOS, Linux
14	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, 9V power source such as a wall outlet adapter, One MOVI shield, One DHT-11 temperature/humidity sensor, One 4.7K resistor, Jumper wires, One breadboard	Windows, macOS, Linux
15	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One L298 motor driver, One L293D H-bridge chip, Two brushed DC motors, One external 12V battery (or other external DC power source such as a 9V battery), Jumper wires, One breadboard	Windows, macOS, Linux

16	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One servo motor (the code has been tested with the MG996R servo. However, any standard servo should work), One potentiometer, One 4 AA battery holder with batteries to power the servo motor, Jumper wires, One breadboard	Windows, macOS, Linux
17	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One relay board, Jumper wires, One AC-powered device that you would like to control with the Arduino, such as a desk lamp, or if you wish to use a DC power device rather than an AC powered one, One 9V battery adapter with a battery with a DC motor	Windows, macOS, Linux
18	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One infrared receiver, One or more infrared transmitter(s), One RF transmitter and receiver pair, Jumper wires, Breadboard	Windows, macOS, Linux
20	Arduino IDE, Arduino Web Editor	Free	https://www.arduino.cc/en/Main/Software , https://create.arduino.cc/	One Arduino Uno or compatible board, One HM-10 Bluetooth 4.0 module, One DHT-11 temperature sensor, One LED, One 4.7K resistor, One 3.3K resistor, One 1.1K resistor, One 330k resistor, Jumper wires, Breadboard	Windows, macOS, Linux

21	Arduino IDE, Arduino Web Editor	Free	https:// www. arduino. cc/en/ Main/ Software, https:// create. arduino. cc/	Two Arduino Uno or compatible boards, two HC-05 Bluetooth modules, one Joystick breakout, module for the Arduino, Jumper wires, Breadboard	Windows, macOS, Linux
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