LED Blinking with Arduino Uno

Code:

// Define the pin where the LED is connected

const int ledPin = 13;

void setup() {

// Initialize the digital pin as an output

pinMode(ledPin, OUTPUT);

}

void loop() {

digitalWrite(ledPin, HIGH); // Turn the LED on (HIGH is the voltage level)

delay(1000); // Wait for a second

digitalWrite(ledPin, LOW); // Turn the LED off (LOW is the voltage level)

delay(1000); // Wait for a second

}

Multiple LED Blinking with Arduino Uno

// Define LED pins

const int led1 = 2;

const int led2 = 3;

const int led3 = 4;

const int led4 = 5;

const int led5 = 6;

// Define an array for LED pins

const int ledPins[] = {led1, led2, led3, led4, led5};

void setup() {

// Set all LED pins as outputs

for (int i = 0; i < 5; i++) {

pinMode(ledPins[i], OUTPUT);

}

}

void loop() {

// Blink LEDs in sequence

for (int i = 0; i < 5; i++) {

digitalWrite(ledPins[i], HIGH); // Turn on the LED

delay(500); // Wait for 500 milliseconds

digitalWrite(ledPins[i], LOW); // Turn off the LED

delay(500); // Wait for 500 milliseconds

}

}