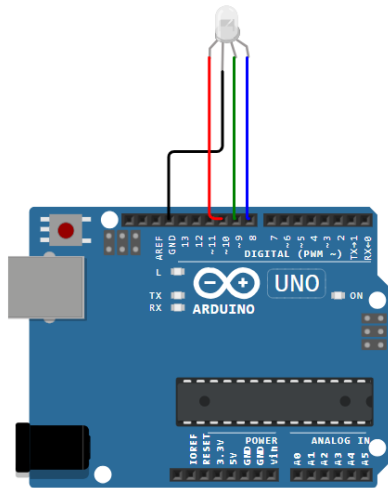


Write the Arduino code and implement the program to blink an RGB LED using Arduino board .



Arduino code

// Define RGB LED pins

#define RED_PIN 10 // Red pin connected to digital pin 10

#define GREEN_PIN 9 // Green pin connected to digital pin 9

#define BLUE_PIN 8 // Blue pin connected to digital pin 8

void setup() {

// Set RGB LED pins as outputs

pinMode(RED_PIN, OUTPUT);

pinMode(GREEN_PIN, OUTPUT);

pinMode(BLUE_PIN, OUTPUT);

}

void loop() {

// Turn on the red LED, turn off the green and blue LEDs

digitalWrite(RED_PIN, HIGH);

digitalWrite(GREEN_PIN, LOW);

digitalWrite(BLUE_PIN, LOW);

delay(1000); // Delay for 1 second

// Turn on the green LED, turn off the red and blue LEDs

digitalWrite(RED_PIN, LOW);

digitalWrite(GREEN_PIN, HIGH);

digitalWrite(BLUE_PIN, LOW);

delay(1000); // Delay for 1 second

// Turn on the blue LED, turn off the red and green LEDs

digitalWrite(RED_PIN, LOW);

digitalWrite(GREEN_PIN, LOW);

digitalWrite(BLUE_PIN, HIGH);

delay(1000); // Delay for 1 second

}