**int flame = 2; // Flame sensor connected to pin 2**

**int buzzer = 11; // Buzzer connected to pin 11**

**int greenled = 13; // Green LED connected to pin 13**

**int redled = 12; // Red LED connected to pin 12**

**void setup() {**

**pinMode(flame, INPUT); // Set flame sensor as input**

**pinMode(buzzer, OUTPUT); // Set buzzer as output**

**pinMode(greenled, OUTPUT); // Set green LED as output**

**pinMode(redled, OUTPUT); // Set red LED as output**

**Serial.begin(9600); // Begin serial communication at 9600 bps**

**}**

**void loop() {**

**int flameStatus = digitalRead(flame); // Read the flame sensor value**

**if (flameStatus == LOW ) { // Flame detected**

**digitalWrite(buzzer, HIGH); // Turn on the buzzer**

**digitalWrite(redled, HIGH); // Turn on the red LED**

**digitalWrite(greenled, LOW); // Turn off the green LED**

**Serial.println("Flame detected!"); // Print message to serial monitor**

**} else { // No flame detected**

**digitalWrite(buzzer, LOW); // Turn off the buzzer**

**digitalWrite(redled, LOW); // Turn off the red LED**

**digitalWrite(greenled, HIGH); // Turn on the green LED**

**Serial.println("No flame detected."); // Print message to serial monitor**

**}**

**delay(1000); // Wait for 1 second before repeating the loop**

**}**