

```
int mq2Pin = A0;    // MQ2 analog output
int flamePin = 2;    // Flame sensor digital
output

int buzzer = 8;      // Buzzer pin
int redLED = 9;      // Red LED pin
int greenLED = 10;   // Green LED pin

int smokeLevel = 0;
int flameDetected = HIGH; // HIGH = No
fire, LOW = Fire

void setup() {
  pinMode(flamePin, INPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(redLED, OUTPUT);
  pinMode(greenLED, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  smokeLevel = analogRead(mq2Pin);    //
```

Read smoke level

```
flameDetected = digitalRead(flamePin); //
```

Read flame sensor

```
Serial.print("Smoke Level: ");
```

```
Serial.print(smokeLevel);
```

```
Serial.print(" | Flame: ");
```

```
Serial.println(flameDetected == LOW ?
```

```
" Fire Detected" : "No Fire");
```

```
if (smokeLevel > 400 || flameDetected ==  
LOW) {
```

```
    digitalWrite(buzzer, HIGH); // Alarm ON
```

```
    digitalWrite(redLED, HIGH); // Red LED
```

ON

```
    digitalWrite(greenLED, LOW); // Green
```

LED OFF

```
} else {
```

```
    digitalWrite(buzzer, LOW); // Alarm OFF
```

```
    digitalWrite(redLED, LOW); // Red LED
```

OFF

```
    digitalWrite(greenLED, HIGH); // Green  
LED ON  
}
```

```
    delay(500);  
}
```