***//gas and flame (BOTH) project together work with this code……………………………………………………………***

int redLed1 = 3;

int redLed2 = 4;

int greenLed = 8;

int buzzer1 = 5; //PWM (~) pin

int buzzer2 = 6; //PWM (~) pin

int gasPin = A0;

int flamePin = 2;

// Your threshold value

int gasSensorThres = 400;

void setup() {

pinMode(redLed1, OUTPUT);

pinMode(redLed2, OUTPUT);

pinMode(greenLed, OUTPUT);

pinMode(buzzer1, OUTPUT);

pinMode(buzzer2, OUTPUT);

pinMode(gasPin, INPUT);

pinMode(flamePin, INPUT);

Serial.begin(9600);

}

void loop() {

int gasSensor = analogRead(gasPin);

int flameSensor = digitalRead(flamePin);

Serial.print("gasPin Value: ");

Serial.println(gasSensor);

Serial.print("flamePin Value: ");

Serial.println(flameSensor);

delay(1000);

if (gasSensor > gasSensorThres && flameSensor==LOW){

digitalWrite(redLed1, HIGH);

tone(buzzer1, 5000); //the buzzer sound frequency at 5000 Hz

digitalWrite(redLed2, HIGH);

tone(buzzer2, 5000); //the buzzer sound frequency at 5000 Hz

digitalWrite(greenLed, LOW);

}

else if (gasSensor > gasSensorThres)

{

digitalWrite(redLed1, HIGH);

tone(buzzer1, 5000); //the buzzer sound frequency at 5000 Hz

digitalWrite(redLed2, LOW);

noTone(buzzer2);

digitalWrite(greenLed, LOW);

}

else if (flameSensor==LOW){ // HIGH MEANS NO FLAME

digitalWrite(redLed1, LOW);

noTone(buzzer1);

digitalWrite(redLed2, HIGH);

tone(buzzer2, 5000); //the buzzer sound frequency at 5000 Hz

digitalWrite(greenLed, LOW);

}

else

{

digitalWrite(redLed1, LOW);

digitalWrite(redLed2, LOW);

noTone(buzzer1);

noTone(buzzer2);

digitalWrite(greenLed, HIGH);

}

}