const int ledpin=13; // ledpin,flamepin and buzpin are not changed throughout the process

const int flamepin=A2;

const int buzpin=11;

const int threshold=200;// sets threshold value for flame sensor

int flamesensvalue=0; // initialize flamesensor reading

void setup() {

Serial.begin(9600);

pinMode(ledpin,OUTPUT);

pinMode(flamepin,INPUT);

pinMode(buzpin,OUTPUT);

}

void loop() {

flamesensvalue=analogRead(flamepin); // reads analog data from flame sensor

if (flamesensvalue<=threshold) { // compares reading from flame sensor with the threshold value

digitalWrite(ledpin,HIGH); //turns on led and buzzer

tone(buzpin,100);

delay(1000); //stops program for 1 second

}

else{

digitalWrite(ledpin,LOW); //turns led off led and buzzer

noTone(buzpin);

}

}