

**Project Development Phase**  
**Sprint-1**

Date	23 October 2022
Team ID	PNT2022TMID40415
Project Name	Industry Specific-Intelligent Fire Management System
Maximum Marks	2

```
int Gas=A0;

int Flame=4;

int buzz=2;

int redLight=3;

int greenLight=4;

float sensorvalue;

int flamevalue;

void setup() {

    pinMode(Gas, INPUT);

    pinMode(Flame, INPUT);

    pinMode(buzz,OUTPUT);

    pinMode(redLight,OUTPUT);

    pinMode(greenLight,OUTPUT);

    Serial.begin(115200);

}

void loop() {

    sensorvalue = analogRead(Gas);

    flamevalue= digitalRead(Flame);

    Serial.print("Gas value:");

    Serial.println(sensorvalue);

    Serial.print("flame state:");

    Serial.println(!flamevalue);

    if(flamevalue==0){
```

```
tone(buzz,1000,200);  
digitalWrite(redLight,HIGH);  
digitalWrite(greenLight,LOW);  
}  
else{  
    noTone(buzz);  
    digitalWrite(redLight,LOW);  
    digitalWrite(greenLight,HIGH);  
}  
  
if(sensorvalue>500){  
    tone(buzz,1000,200);  
    digitalWrite(redLight,HIGH);  
    digitalWrite(greenLight,LOW);  
}  
else{  
    noTone(buzz);  
    digitalWrite(redLight,LOW);  
    digitalWrite(greenLight,HIGH);  
}  
}
```