

Project Development phase

Sprint-4

Data	November 2021
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Project Name	Hazardous Area Monitoring For Industrial Plant Powered By IoT

SPRINT-4:

Fire & Smoke Detection- As a worker, I can detect fire using temperature, smoke and flame sensors with automatic water sprinkler

Program:

```
int redLed = 12;

int greenLed = 11;

int buzzer = 10;

int smokeA0 = A5;

// Your threshold value

int sensorThres = 400;

void setup()
{
    pinMode(redLed, OUTPUT);
    pinMode(greenLed, OUTPUT);
    pinMode(buzzer, OUTPUT);
    pinMode(smokeA0, INPUT);
    Serial.begin(9600);
}

void loop()
{
```

```
int analogSensor = analogRead(smokeA0);  
Serial.print("Pin A0: ");  
Serial.println(analogSensor);  
// Checks if it has reached the threshold value  
if (analogSensor > sensorThres)  
{  
    digitalWrite(redLed, HIGH);  
    digitalWrite(greenLed, LOW);  
    tone(buzzer, 1000, 200);  
}  
Else  
{  
    digitalWrite(redLed, LOW);  
    digitalWrite(greenLed, HIGH);  
    noTone(buzzer);  
}  
delay(100);  
}
```