**Project Development Phase**

**Sprint-1**

| Date | 23 October 2022 |
| --- | --- |
| Team ID | PNT2022TMID54096 |
| 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);

}

}