

Gas Leakage monitoring & Alerting system for Industries

Project development phase

Delivery of sprint-1

| | |
|--------------|-----------------------------------------------------------|
| Date | 3 November 2022 |
| Team ID | PNT2022TMID33933 |
| Project Name | Gas Leakage Monitoring And Alerting System For Industries |

Program:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(6,7,8,9,12,13);

float tempsensor=A1;

void setup()
{
  pinMode(2,OUTPUT);
  pinMode(4,OUTPUT);
  pinMode(10,OUTPUT);
  pinMode(3,OUTPUT);
  pinMode(A0,INPUT);
```

```
pinMode(A1,INPUT);
Serial.begin(9600);
lcd.begin(16,2);
}
void loop()
{
  {
    float temp=analogRead(tempsensor);
    Serial.println(temp);
    if(temp>150)
      digitalWrite(3,HIGH);
    else
      digitalWrite(3,LOW);
  }
}
```

```
int analogValue = analogRead(A0);
Serial.print(analogValue);
if(analogValue>500)

{
```

```
digitalWrite(4,HIGH);  
digitalWrite(2,LOW);  
tone(10,10000,100000);  
lcd.clear();  
lcd.setCursor(0,1);  
lcd.print("WARNING");  
delay(1000);  
delay(1000);  
lcd.clear();  
lcd.setCursor(0,1);  
lcd.print("GET OUT");  
delay(1000);  
delay(1000);  
}  
else  
{  
digitalWrite(2,HIGH);  
digitalWrite(4,LOW);  
noTone(10);  
lcd.clear();
```

```
lcd.setCursor(0,1);  
lcd.print("EVERYTHING IS CLEAR");  
delay(1000);  
lcd.clear();  
lcd.setCursor(0,1);  
lcd.print("SAFE NOW");  
delay(1000);  
}  
}
```