

Gas Leakage monitoring & Alerting system for Industries

Project development phase

Delivery of sprint-2

Date	5 November 2022
Team ID	PNT2022TMID42181
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);  
}  
}
```