

Gas Leakage monitoring & Alerting system for Industries

Project development phase

Delivery of sprint-4

Date	5 November 2022
Team ID	PNT2022TMID42181
Project Name	Gas Leakage Monitoring And Alerting System For Industries

PROJECT:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(5,6,8,9,10,11);
```

```
int redled = 2;

int greenled = 3;

int buzzer = 4;

int sensor = A0;

int sensorThresh = 400;
```

```
void setup()

{

pinMode(redled, OUTPUT);

pinMode(greenled,OUTPUT);

pinMode(buzzer,OUTPUT);

pinMode(sensor,INPUT);

Serial.begin(9600);
```

```
lcd.begin(16,2);  
}  
  
void loop()  
{  
  int analogValue = analogRead(sensor);  
  Serial.print(analogValue);  
  if(analogValue>sensorThresh)  
  {  
    digitalWrite(redled,HIGH);  
    digitalWrite(greenled,LOW);  
    tone(buzzer,1000,10000);  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("ALERT");  
    delay(1000);  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("EVACUATE");  
    delay(1000);  
  }  
  else  
  {  
    digitalWrite(greenled,HIGH);  
    digitalWrite(redled,LOW);  
    noTone(buzzer);  
    lcd.clear();  
    lcd.setCursor(0,0);  
    lcd.print("SAFE");
```

```
    delay(1000);  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("ALL CLEAR");  
    delay(1000);  
}  
  
}
```