

DELIVERY OF SPRINT-1

Date	01 November 2022
Team ID	PNT2022TMID13412
Project Name	Gas Leakage Monitoring and Alerting System

```
#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);
```

```
}
```

```
}
```

