

Design Development Phase
Sprint-3

Date	19 NOVEMBER 2022
Team ID	PNT2022TMID11027
Project Name	Gas Leakage Monitoring and Alerting System

Program:

```
#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,OUTP
UT);

pinMode(buzzer,OUTPU
T);

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,1000,1000);
    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);
    }
}

```