Design Development Phase
Sprint-2

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID20972
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,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);
}

}
```