## Design Development Phase Sprint-3

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID20972
Project Name	Gas Leakage Monitoring and Alerting System

```
Program:
#include <LiquidCrystal.h>
LiquidCrystallcd(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,HI
 GH);
 digitalWrite(greenled,L
 OW);
tone(buzzer,1000,1000
 0);
 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);
         }
       }
```