Design Development Phase Sprint-3

Date	18 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,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);
         }
```