Design Development Phase Sprint-4

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,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);
 }
}
```