PROJECT DEVELOPMENT PHASE
SPRINT 4

Team ID: PNT2022TMID33446
Project: Gas Leakage Monitoring and Alerting System for Industries.
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Final Code:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(1,5,9,13,15,6);

int red_led = 2;
int green_led =3;
int buzzer = 4;
int sensor = A0;
int sensor_Thresh = 400;

void setup()
{
pinMode(red_led, OUTPUT);
pinMode(green_led,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(red_led,HIGH);
    digitalWrite(green_led,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(green_led,HIGH)
   digitalWrite(red_led,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);
  }

}
```