Project Development Phase

Sprint 4

Team ID	PNT2022TMID39018
Project Name	Gas leakage monitoring and alerting system for industries

Code:

```
#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);
 }
}
```