

FINAL CODE	
Team ID	PNT2022TMID04358
Project Name	Gas Leakage Monitoring and Alerting System

```
#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,1);  
    digitalWrite(greenled,0);  
    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,1);  
    digitalWrite(redled,0);  
    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);
```

```
  }
```

```
}
```