

## FINAL CODE

<b>TEAM ID</b>	<b>PNT2022TMID28556</b>
<b>PROJECT NAME</b>	<b>GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES</b>

### CODE:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(5,6,8,9,10,11);

int redled = 3;
int greenled = 2;
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);  
}  
  
}
```