

# Gas Leakage Monitoring And Alerting System

## Coding

```
#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);  
}
```

