

DOMAIN: IOT

PROJECT TITLE: GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR

INDUSTRIES

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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);
}
```

}