

GAS LEAKAGE MONITORING&ALERTING SYSTEM FORINDUSTRIES

PROJECT DEVELOPMENT PHASE

SPRINT 4:

TITLE	GAS LEAKAGE MONITORING&ALTERING SYSTEM FOR INDUSTRIES
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID16039

PROGRAM :

```
#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);  
}
```

