

GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

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PROJECT DEVELOPMENT PHASE

SPRINT 4:

TITLE	GAS LEAKAGE MONITORING&ALTERING SYSTEM FOR INDUSTRIES
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID03152

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);  
}
```