

GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

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PROJECT DEVELOPMENT PHASE

SPRINT 2:

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);  
}
```