

# **GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES**

## **PROJECT DEVELOPMENT PHASE**

**TEAM ID:** PNT2022TMID16039

### **SPRINT 4:**

#### **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);  
    }
```