

GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

PROJECT DEVELOPMENT PHASE

TEAM ID : PNT2022TMID16039

SPRINT 2:

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);
    }
```