

GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

PROJECT DEVELOPMENT PHASE

SPRINT 3:

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);  
}  
  
}
```

