

Gas Leakage monitoring & Alerting system for Industries

Project development phase

Delivery of sprint-3

Date	5 November 2022
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Project Name	Gas Leakage Monitoring And Alerting System For Industries

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);  
}  
  
}
```