GAS LEAKAGE MONITORING AND ALERT SYSTEM FOR INDUSTRIES PROJECT DEVELOPMENT PHASE

PROJECT ID: PNT2022TMID01812

SPRINT - 4

```
#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);
}
```