GAS LEAKAGE MONITORING AND ALERT

SYSTEM FOR INDUSTRIES

PROJECT DEVELOPMENT PHASE

PROJECT ID : PNT2022TMID18536

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);
```

```
  }

}
```