GASLEAKAGEMONITORINGANDALERTSYSTEMF ORINDUSTRIES PROJECTDEVELOPMENTPHASE

PROJECTID:PNT2022TMID30444

SPRINT-4

```
#include
<LiquidCrystal.h>LiquidCrystal
lcd(5,6,8,9,10,11);
int redled = 2;
intgreenled = 3;
intbuzzer = 4;
intsensor =A0;
int sensorThresh = 400;

void setup()
{
    pinMode(redled,
        OUTPUT);pinMode(greenled,OUT
        PUT);pinMode(buzzer,OUTPUT);
    pinMode(sensor,INPUT);Serial.beg
    in(9600);lcd.begin(16,2);
```

```
}
void loop()
 intanalogValue=analogRead(sensor);S
 erial.print(analogValue);if(analogValu
 e>sensorThresh)
 {
  digitalWrite(redled,HIGH);digital
  Write(greenled,LOW);tone(buzze
  r,1000,10000);lcd.clear();
  lcd.setCursor(0,1);lcd.print("ALE
  RT"); delay(1000);lcd.clear();
  lcd.setCursor(0,1);lcd.pri
  nt("EVACUATE");delay(
  1000);
 }
 else
 {
  digitalWrite(greenled,HIGH);di
  gitalWrite(redled,LOW);noTon
  e(buzzer);
  lcd.clear();lcd.setCursor(0,0);lc
  d.print("SAFE");delay(1000);
```

```
lcd.clear();lcd.setCursor(0
,1);lcd.print("ALL
    CLEAR");delay(1000);
}
```