SPRINT 1

DOMAIN: IOT

PROJECT TITLE: GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR

INDUSTRIES

TEAM ID: PNT2022TMID15954

TEAM MEMBERS: 1) BHERMAL ADARSH JAIN (TEAM LEADER)

2) GUVVALA NIKHIL REDDY

3) JAY BALDIYA JAIN

4) A. LALITH KUMAR

CODE:

```
#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);
 }
}
```