Project Development Phase
Sprint - 4

Date	18 NOV 2022
Team ID	PNT2022TMID47518
Project Name	Project – 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);
  }
```