GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

PROJECT DEVELOPMENT PHASE
TEAM ID: PNT2022TMID16039

SPRINT 1:
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);
  }

}
```