GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

PROJECT DEVELOPMENT PHASE

TEAM ID : PNT2022TMID16039
SPRINT 3:
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);
    }


}
```