GAS LEAKAGE MONITORING&ALERTING SYSTEM FOR INDUSTRIES

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PROJECT DEVELOPMENT PHASE

SPRINT 1:

TITLE	GAS LEAKAGE MONITORING&ALTERING SYSTEM FOR INDUSTRIES
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID03152

PROGRAM :

```cpp
#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);
  }

}
```