FINAL CODE

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| DATE | 10 NOVEMBER 2022 |
| PROJECT NAME | GAS LEAKAGE MONITORING AND ALERTING SYSTEM |
| TEAM ID | PNT2022TMID13490 |

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);

  }

}