#include <Wire.h>

#include <LiquidCrystal\_I2C.h>

LiquidCrystal\_I2C lcd(0x27, 16, 2);

//defines the led and the sensor

const int gasPin=A0;

//const int gasPin1=A1;

int red = 12;

int green = 11;

int gasA0 = A0;

int gasA1 = A1;

int threshold = 600; //threshold value

void setup()

{

lcd.begin();

lcd.backlight();

lcd.clear();

Serial.begin(9600);

pinMode(red, OUTPUT); //sets the red led as output

pinMode(green, OUTPUT); //sets the green led as output

pinMode(gasA0, INPUT); //sets the gas sensor as input

//pinMode(gasA1, INPUT);

}

void loop() {

int analogSensor = analogRead(gasPin);

//int analogSensor1 = analogRead(gasPin1); //reads the data from the sensor

// checks if it has reached the threshold value

if (analogRead(gasPin) > threshold)

{

digitalWrite(red, HIGH);

digitalWrite(green, LOW);

lcd.setCursor(0,0);

lcd.print("food is bad");

Serial.println("food is Bad");

delay(100);

}

else //if analog < threshold, normal condition

{

digitalWrite(red, LOW);

digitalWrite(green, HIGH);

lcd.setCursor(0,0);

lcd.print("food is good");

Serial.println("food is good");

delay(100);

}

lcd.setCursor(0,1);

lcd.print("CH4 Amt= ");

lcd.print(analogRead((gasPin+gasPin1)/2));

Serial.println(analogRead(gasPin));

//Serial.println(analogRead(gasPin1));

delay(100); //delay of 100 microseconds

}