#include <LiquidCrystal.h>

const int rs = 12, en = 11, d4 = 5, d5 = 4, d6 = 3, d7 = 2;LiquidCrystal lcd(rs, en, d4,

d5, d6, d7);

int redLed = 7; int

greenLed = 6;int buzzer =

10;

int smokeA0 = A5;

// Your threshold valueint

sensorThres = 400;

void setup() {

lcd.begin(16, 2);

lcd.clear();

lcd.setCursor(1,0);

lcd.print("JAKIR HOSSAIN");

lcd.setCursor(0,1); lcd.print("Gas fault

Detect"); delay(3000);

lcd.clear();

lcd.setCursor(0,1);

lcd.print("AirQuality888ppm”);

pinMode(redLed, OUTPUT); pinMode(greenLed,

OUTPUT); pinMode(buzzer, OUTPUT);

pinMode(smokeA0, INPUT); Serial.begin(9600);

}

void loop() {

int analogSensor = analogRead(smokeA0);

Serial.print("Pin A5: ");

Serial.println(analogSensor);

// Checks if it has reached the threshold valueif (analogSensor >

sensorThres)

{

digitalWrite(redLed, HIGH);

digitalWrite(greenLed, LOW);tone(buzzer,

1000, 200); lcd.setCursor(0,0); lcd.print("Gas

fault,

");

}

else

{

digitalWrite(redLed, LOW);

digitalWrite(greenLed, HIGH);

noTone(buzzer); lcd.setCursor(0,0);

lcd.print("Good air");

}