#include<LiquidCrystal.h>

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

Liquid Crystal lcd (rs, en, d4, d5, d6, d7);

int buz=8;

int led=9;

const int aqsensor=A0;

int threshold=250;

void setup ()

{

pinMode (buz, OUTPUT);

pinMode (led, OUTPUT);

pinMode (aqsensor, INPUT);

Serial.begin(9600);

lcd. clear ();

lcd. begin (16,2);

}

void loop ()

{

int ppm=analogRead(aqsensor);

Serial.print("Air Quality: ");

Serial.println(ppm);

lcd. setCursor (0,0);

lcd. Print ("Air Quality: ");

lcd. Print(ppm);

if (ppm > threshold)

{

lcd. setCursor (1,1);

lcd. Print ("AQ Level HIGH");

tone(led,1000,200);

digital Write (buz, HIGH);

}

Else

{

digitalWrite (led, LOW);

digitalWrite (buz, LOW);

lcd. setCursor (1,1);

lcd. Print ("AQ Level Good");

}

delay (500);

}