// C++ code

//

#include <LiquidCrystal.h>

LiquidCrystal lcd(13, 12, 11, 10, 9, 8);

#define Buton 7

#define Kirmizi 6

#define Yesil 5

#define Mavi 4

#define Buzzer 3

const int gas = 0;

int MQ2pin = A0;

float sensorValue;

int Asayisi = 0;

void setup()

{

pinMode(Kirmizi, OUTPUT);

pinMode(Yesil, OUTPUT);

pinMode(Mavi, OUTPUT);

pinMode(Buzzer, OUTPUT);

lcd.begin(16, 2);

pinMode(Buton, INPUT);

Serial.begin(9600);

//digitalWrite(Buzzer, LOW);

}

void loop()

{

sensorValue = analogRead(MQ2pin);

Serial.println(sensorValue);

if(sensorValue >= 457){

digitalWrite(Kirmizi,255);

digitalWrite(Buzzer, HIGH);

lcd.setCursor(0, 0);

lcd.print("Tehlikeli");

lcd.setCursor(0, 1);

lcd.print("Alarm Sayisi:");

lcd.print(Asayisi++);

while(digitalRead(Buton)==1)

{

digitalWrite(Buzzer, LOW);

}

}

else{

digitalWrite(Kirmizi,0);

digitalWrite(Buzzer, LOW);

}

if(sensorValue <= 295)

{

digitalWrite(Yesil, 255);

lcd.setCursor(0, 0);

lcd.print("Normal ");

lcd.setCursor(0, 1);

lcd.print("Alarm Sayisi:");

lcd.print(Asayisi);

}else{

digitalWrite(Yesil, 0);

}

if(sensorValue >= 300 && sensorValue <= 450)

{

digitalWrite(Yesil, 255);

digitalWrite(Kirmizi, 255);

lcd.setCursor(0, 0);

lcd.print("Kritik ");

lcd.setCursor(0, 1);

lcd.print("Alarm Sayisi:");

lcd.print(Asayisi);

}else{

digitalWrite(Yesil, 0);

digitalWrite(Kirmizi, 0);

}

}