// include the library code:

#include <LiquidCrystal.h>

#include <SimpleDHT.h>

// set the DHT Pin

int pinDHT11 = 8;

SimpleDHT11 dht11;

// initialize the library with the numbers of the interface pins

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

void setup() {

pinMode(13,OUTPUT);

// set up the LCD's number of columns and rows:

Serial.begin(9600);

lcd.begin(16, 2);

// Print a message to the LCD.

lcd.print("Temp: Humidity:");

}

void loop() {

//DHT11

// start working...

Serial.println("=================================");

Serial.println("Sample DHT11...");

// read with raw sample data.

byte temperature = 0;

byte humidity = 0;

byte data[40] = {0};

if (dht11.read(pinDHT11, &temperature, &humidity, data)) {

Serial.print("Read DHT11 failed");

return;

}

Serial.print("Sample RAW Bits: ");

for (int i = 0; i < 40; i++) {

Serial.print((int)data[i]);

if (i > 0 && ((i + 1) % 4) == 0) {

Serial.print(' ');

}

}

Serial.println("");

Serial.print("Sample OK: ");

Serial.print((int)temperature); Serial.print(" \*C, ");

Serial.print((int)humidity); Serial.println(" %");

//LCD Display

//lcd.clear();

lcd.setCursor(0, 0);

lcd.print(" Temp: ");

lcd.print((int)temperature); lcd.print(" \*C ");

lcd.setCursor(0, 1);

lcd.print("Humedad: ");

lcd.print((int)humidity); lcd.print(" %");

if((int)temperature>40){

digitalWrite(13, HIGH);

delay(1000);

digitalWrite(13, LOW);

delay(1000);

}

// DHT11 sampling rate is 2seg.

delay(2000);

}