// calculating temperature and humidity using arduino UNO

#include <dht.h>

#include "LiquidCrystal.h"

// initialize the library by providing the nuber of pins to it

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

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

dht DHT;

#define DHT11\_PIN 7

void setup(){

Serial.begin(9600);

Serial.println(" ");

Serial.println("LABEL,Time,T,H");

lcd.begin(16,2);

}

void loop()

{

int chk = DHT.read11(DHT11\_PIN);

Serial.println("Temperature: ");

Serial.println(DHT.temperature);

Serial.print("C");

Serial.println("\nHumidity: ");

Serial.println(DHT.humidity);

Serial.print("%");

delay(10000);

lcd.setCursor(0, 0);

lcd.print("Temperature: ");

lcd.print(DHT.temperature); lcd.print(",");

lcd.setCursor(0, 1);

lcd.print("Humidity: ");

lcd.println(DHT.humidity);

}