Smart Irrigation System

Code:

#define BLYNK\_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#include <OneWire.h>

#include <DallasTemperature.h>

#define ONE\_WIRE\_BUS D2

OneWire oneWire(ONE\_WIRE\_BUS);

DallasTemperature sensors(&oneWire);

char auth[] ="abab24c5192144fda436a63b7d6aeb64";

char ssid[] ="CORALIN";

char pass[] ="4f855jm5";

int sensor=0;

void setup()

{

Serial.begin(115200);

Blynk.begin(auth, ssid, pass);

sensors.begin();

}

void sendTemps()

{

sensor=analogRead(A0);

sensors.requestTemperatures();

float temp = sensors.getTempCByIndex(0);

Serial.println(temp);

Serial.println(sensor);

Blynk.virtualWrite(V1, temp);

Blynk.virtualWrite(V2,sensor);

delay(1000);

}<https://arduino.esp8266.com/stable/package_esp8266com_index.json>

void loop() <https://arduino.esp8266.com/stable/package_esp8266com_index.json>

{

Blynk.run();

sendTemps();

}

Libraries link:

<https://www.arduinolibraries.info/libraries/dallas-temperature>

<https://www.arduinolibraries.info/libraries/one-wire>

<https://github.com/blynkkk/blynk-library>

<https://arduino.esp8266.com/stable/package_esp8266com_index.json>

Link to install ESP8266 board in Arduino IDE

package manager install:

<https://arduino.esp8266.com/stable/package_esp8266com_index.json>

Board mangaer: select esp8266 library

Done!!