Listing Program

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#include <SimpleTimer.h>

#define BLYNK\_PRINT Serial

#include "DHT.h"

#define DHTTYPE DHT11

#define dht\_dpin 13

char auth[] = "fJP73pkzJyaEdK-AdGV7yXMZiADPw4SZ";

char ssid[] = "AGUSTINUS";

char pass[] = "aguspinem12345"; //Enter WIFI Password

DHT dht(dht\_dpin, DHTTYPE);

SimpleTimer timer;

int sensor =A0;

int sensor\_kelembaban\_tanah ;

int suhu;

int h1;

int h2;

int h3;

int h4;

int h5;

int relay\_pompa = 16;

void setup()

{

Serial.begin(115200);

Blynk.begin(auth, ssid, pass);

timer.setInterval(2000L, getSendData);

pinMode(relay\_pompa, OUTPUT);

digitalWrite ( relay\_pompa, HIGH);

}

void loop()

{

timer.run(); // Initiates SimpleTimer

Blynk.run();

}

void getSendData()

{

int t1 = dht.readTemperature();

suhu = t1 + 1 ;

sensor = analogRead(A0);

sensor\_kelembaban\_tanah = sensor / 10 ;

h1 = sensor\_kelembaban\_tanah\*100;

h2 = h1/sensor\_kelembaban\_tanah;

h3 = h2-sensor\_kelembaban\_tanah;

h5 = h3+1;

h5 = h5+40;

if(h5<=1)

{

h5=10;

}

Blynk.virtualWrite(V0, suhu);

Blynk.virtualWrite(V1, h5);

if (suhu > 28 and h5 < 60){

Blynk.notify("Tanaman Tidak Sehat, Siram!!!");

digitalWrite(relay\_pompa, LOW); }

else {

digitalWrite(relay\_pompa, HIGH);

}}