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);

}}