LISTING PROGRAM

#include <ESP8266WiFi.h>

#define BLYNK\_PRINT Serial

#include <BlynkSimpleEsp8266.h>

#include <SimpleTimer.h>

#include "DHT.h"

#define DHTTYPE DHT11

#define dht\_dpin 16

char auth[] = "kxvGoC8RBPAA\_-yoXnn4GwoaRcQ9d2LM";

char ssid[] = "Redmi Ade";

char pass[] = "Ade1202";

DHT dht(dht\_dpin, DHTTYPE);

SimpleTimer timer;

int sensor = A0;

int suhu, dataanalog ;

int kelembaban;

int relay\_pompa = 2;

void setup()

{

 Serial.begin(115200);

 Blynk.begin(auth, ssid, pass);

 timer.setInterval(2000L, getSendData);

 pinMode(relay\_pompa, OUTPUT);

 digitalWrite ( relay\_pompa, HIGH);

}

void loop()

{

 dataanalog = analogRead(sensor);

 kelembaban = dht.readHumidity() +6;

 suhu = dataanalog / 10.20;

 Serial.print("suhu : ");

 Serial.println(suhu);

 Serial.print("kelembaban : ");

 Serial.println(kelembaban);

 delay (2000);

 timer.run(); // Initiates SimpleTimer

 Blynk.run();

}

 void getSendData()

{

 Blynk.virtualWrite(V1, suhu);

 Blynk.virtualWrite(V2, kelembaban);

 if (suhu > 28 and kelembaban < 80){

 Blynk.notify(" Ruangan panas Kipas ON!!!");

 digitalWrite(relay\_pompa, LOW);

 }

 else {

 digitalWrite(relay\_pompa, HIGH);

 }

}