

PROGRAM/SISTEM

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#define BLYNK_TEMPLATE_ID "TMPL6FH_cjxoa"
#define BLYNK_TEMPLATE_NAME "monitoring dht22"
#define BLYNK_AUTH_TOKEN "OX3WCdUzv18zGWn8-
NOiFb8wO1V75jyw"

#define BLYNK_PRINT Serial
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
#include <DHT.h>

char auth[] = BLYNK_AUTH_TOKEN;
char ssid[] = "Apasalahku"; // Tipekan nama wifi Anda
char pass[] = "luasikbang"; // Tipekan kata sandi wifi Anda

BlynkTimer timer;

#define DHTPIN 4 // Koneksikan pin Out ke D2 pada NODE MCU
#define DHTTYPE DHT22
DHT dht(DHTPIN, DHTTYPE);

#define RELAY_PIN 16 // Pin GPIO yang terhubung ke relay

void setup()
{
  Serial.begin(115200);

  Blynk.begin(auth, ssid, pass);
  dht.begin();
  pinMode(RELAY_PIN, OUTPUT); // Mengatur pin relay sebagai output
```

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    timer.setInterval(100L, sendSensor);
}

void loop()
{

    Blynk.run();
    timer.run();

}

void sendSensor()
{

    float h = dht.readHumidity();
    float t = dht.readTemperature(); // or dht.readTemperature(true) for
Fahrenheit
    if (isnan(h) || isnan(t))
    {
        Serial.println("Failed to read from DHT sensor!");
        return;
    }
    // You can send any value at any time.
    // Please don't send more that 10 values per second.
    //Blynk.virtualWrite(V0, value);
    Blynk.virtualWrite(V1, t);
    Blynk.virtualWrite(V2, h);

    Serial.print("Temperature : ");
    Serial.print(t);

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```
Serial.print(" Humidity : ");
Serial.println(h);
float suhu = t;
if (suhu>20){
    //Suhu di atas 28 derajat, menyala kipas
    digitalWrite( RELAY_PIN,LOW);
    Blynk.virtualWrite(V3, 1);
    Serial.println("Kipas ON");
}else if (suhu<18){
    //Suhu di bawah 26 derajat,matikan kipas
    digitalWrite(RELAY_PIN,HIGH);
    Blynk.virtualWrite(V3, 0);
    Serial.println("Kipas OFF");
}
}
```