

LAMPIRAN

Pengujian suhu dan kelembaban selama 24 jam menggunakan HTC-1 dan rangkaian alat esp32





Listing program

```
#define BLYNK_TEMPLATE_ID "TMPLHN-e4S0V"
#define BLYNK_DEVICE_NAME "Monitoring Jamur Tiram 2"
#define BLYNK_AUTH_TOKEN "_UN9XFpHV4-JB9iRpCftW_2clk7EwB-"
#define BLYNK_FIRMWARE_VERSION "0.1.0"
#define BLYNK_PRINT Serial

#include <WiFi.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>
//#include "BlynkEdgent.h"
#include <DHT.h>

char auth[] = BLYNK_AUTH_TOKEN;

char ssid[] = "wood f7";
char pass[] = "manusiapurba";

#define DHT_SENSOR_PIN 21
#define DHT_SENSOR_TYPE DHT22
DHT dht_sensor(DHT_SENSOR_PIN,
DHT_SENSOR_TYPE); BlynkTimer timer;
int RelayPin1=2;
int RelayPin2=4;
```

```
BLYNK_WRITE(V7){  
  int pinValue=param.asInt();  
  digitalWrite(RelayPin1, pinValue);  
}
```

```
BLYNK_WRITE(V8){  
  int pinValue=param.asInt();  
  digitalWrite(RelayPin2, pinValue);  
}
```

```
void Sensor()  
{  
  float h = dht_sensor.readHumidity();  
  float t = dht_sensor.readTemperature();  
  
  if (isnan(h) || isnan(t)) {  
    Serial.println("Failed to read from DHT  
    sensor!"); return;  
  }else {  
    Serial.println("\n Humidity and temperature \n");  
    Serial.print("Current \n humidity = ");  
    Serial.print(h);  
    Serial.print("% ");  
    Serial.print("\n temperature = ");  
    Serial.print(t);
```

```
}  
Blynk.virtualWrite(V5, t);  
Blynk.virtualWrite(V6, h);  
}
```

```
void setup()
```

```
{  
  Serial.begin(9600);  
  pinMode(RelayPin1, OUTPUT);  
  pinMode(RelayPin2, OUTPUT);  
  
  digitalWrite(RelayPin1, HIGH);  
  digitalWrite(RelayPin2, HIGH);  
  
  Blynk.begin(auth, ssid, pass);  
  dht_sensor.begin();  
  timer.setInterval(1000L, Sensor);  
}
```

```
void loop()
```

```
{  
  Blynk.run();  
  timer.run();  
}
```