

LAMPIRAN

- **Kode Program**

```
#define COUNT_LOW 1638
#define COUNT_HIGH 7864
#define TIMER_WIDTH 16
#include "esp32-hal-ledc.h"

#include <OneWire.h>
#include <DallasTemperature.h>
#define ONE_WIRE_BUS 26
OneWire oneWire(ONE_WIRE_BUS);
DallasTemperature sensors(&oneWire);
float ds1;

// Fill-in information from your Blynk Template here
#define BLYNK_TEMPLATE_ID "TMPL6r-uYUNqD"
#define BLYNK_DEVICE_NAME "Kompor"

#define BLYNK_FIRMWARE_VERSION "0.1.0"
#define BLYNK_PRINT Serial
// #define BLYNK_DEBUG
#define APP_DEBUG
// Uncomment your board, or configure a custom board in Settings.h
#define USE_WROVER_BOARD
// #define USE_TTGO_T7

#include "BlynkEdgent.h"

BlynkTimer timer;
String Suhu;
```

```
BLYNK_WRITE(V1)
```

```
{  
  int pinValue = param.asInt(); // assigning incoming value from pin V1 to a variable  
  // You can also use:  
  // String i = param.asStr();  
  // double d = param.asDouble();  
  Serial.print("V1 value is: ");  
  Serial.println(param.asInt());  
  if (pinValue == 1) {  
    digitalWrite(27, LOW);  
  }  
  else if (pinValue == 0) {  
    digitalWrite(27, HIGH);  
  }  
}
```

```
BLYNK_WRITE(V2)
```

```
{  
  int pinValue = param.asInt(); // assigning incoming value from pin V1 to a variable  
  // You can also use:  
  // String i = param.asStr();  
  // double d = param.asDouble();  
  Serial.print("V2 value is: ");  
  Serial.println(pinValue);  
  gerak(pinValue);  
}
```

```
BLYNK_WRITE(V4)
```

```
{  
  int pinValue = param.asInt(); // assigning incoming value from pin V1 to a variable  
  if (pinValue == 1) {  
    gerak(110);  
    delay(1000);  
  }  
}
```

```

    digitalWrite(27, LOW);
    delay(3000);
    digitalWrite(27, HIGH);
  }
}
BLYNK_WRITE(V5)
{
  int pinValue = param.asInt(); // assigning incoming value from pin V1 to a variable
  if (pinValue == 1) {
    gerak(110);
    delay(1000);
    digitalWrite(27, LOW);
    delay(3000);
    digitalWrite(27, HIGH);
    gerak(33);
  }
}

BLYNK_WRITE(V6)
{
  int pinValue = param.asInt(); // assigning incoming value from pin V1 to a variable
  if (pinValue == 1) {
    gerak(10);
    digitalWrite(27, HIGH);
  }
}
void myTimerEvent()
{
  Blynk.virtualWrite(V3, Suhu);
  Suhu = "none";
}

```

```

// 110 buka
// kecil 33

void setup()
{
  Serial.begin(115200);
  pinMode(27, OUTPUT);
  digitalWrite(27, HIGH);
  sensors.begin();
  ledcSetup(4, 50, TIMER_WIDTH); // channel 4, 50 Hz, 16-bit width
  ledcAttachPin(18, 4); // GPIO 18 assigned to channel 4
  ledcWrite(4, COUNT_LOW);
  delay(100);
  BlynkEdgent.begin();
  timer.setInterval(1000L, myTimerEvent);
}
int nilai_pwm = COUNT_LOW;

void loop() {
  sensors.requestTemperatures();
  Suhu = sensors.getTempCByIndex(0);
  BlynkEdgent.run();
  timer.run();
}

void gerak(int sudut) {
  sudut = map(sudut, 0, 180, COUNT_LOW, COUNT_HIGH);
  Serial.print("Sudut : ");
  Serial.print(sudut);
  Serial.print(" || PWM : ");
  Serial.print(nilai_pwm);
  Serial.println();
}

```

```
if (nilai_pwm < sudut) {
  for (int i = nilai_pwm ; i < sudut ; i = i + 200)
  {
    ledcWrite(4, i);    // sweep the servo
    delay(50);
  }
}
else if (nilai_pwm > sudut) {
  for (int i = nilai_pwm ; i > sudut ; i = i - 200)
  {
    ledcWrite(4, i);    // sweep the servo
    delay(50);
  }
}
nilai_pwm = sudut;
}
```