

## LAMPIRAN

```
#include <ESP8266WiFi.h>
```

```
#include <BlynkSimpleEsp8266.h>
```

```
#include <SimpleTimer.h>
```

```
#include <OneWire.h>
```

```
#include <DallasTemperature.h>
```

```
#define BLYNK_PRINT Serial // Comment this out to disable prints and save space
```

```
char auth[] = "2CKIvRPry0nz71sek68vmjL_M1BCepO_";
```

```
/* WiFi credentials */
```

```
char ssid[] = "Kawin kontrak";
```

```
char pass[] = "Salomecoy";
```

```
SimpleTimer timer;
```

```
#define ONE_WIRE_BUS 2 // DS18B20 on arduino pin2 corresponds to D4 on physical  
board "D4 pin on the ndoemcu Module"
```

```
const int pompa1Pin = D5;
```

```
const int pompa2Pin = D6;
```

```
const int pompa3Pin = D7;

OneWire oneWire(ONE_WIRE_BUS);

DallasTemperature DS18B20(&oneWire);

float temp;

float Fahrenheit=0;

void setup()

{

  Serial.begin(115200);

  Blynk.begin(auth, ssid, pass);

  DS18B20.begin();

  timer.setInterval(1000L, getSendData);

  pinMode(pompa1Pin, OUTPUT);

  pinMode(pompa2Pin, OUTPUT);

  pinMode(pompa3Pin, OUTPUT);

  digitalWrite(pompa1Pin, HIGH);

  digitalWrite(pompa2Pin, HIGH);

  digitalWrite(pompa3Pin, HIGH);
```

```
}
```

```
void loop()
```

```
{
```

```
timer.run(); // Initiates SimpleTimer
```

```
Blynk.run();
```

```
}
```

```
/******
```

```
* Send Sensor data to Blynk
```

```
*****/
```

```
void getSendData()
```

```
{
```

```
DS18B20.requestTemperatures();
```

```
temp = DS18B20.getTempCByIndex(0); // Celcius
```

```
Fahrenheit = DS18B20.toFahrenheit(temp); // Fahrenheit
```

```
Serial.println(temp);
```

```
Serial.println(Fahrenheit);

Blynk.virtualWrite(V3, temp); //virtual pin V3

Blynk.virtualWrite(V4, Fahrenheit); //virtual pin V4

if(temp >25 && temp <29 ){

    digitalWrite(pompa1Pin, HIGH);

    delay(100);

    digitalWrite(pompa2Pin, HIGH);

    delay(100);

    digitalWrite(pompa3Pin, HIGH);

}

if(temp >28 ){

    digitalWrite(pompa1Pin, LOW);

    delay(100);

    digitalWrite(pompa2Pin, LOW);

}

if(temp <25 ){

    digitalWrite(pompa1Pin, LOW);
```

```
delay(100);
```

```
digitalWrite(pompa3Pin, LOW);
```

```
}
```

```
}
```

