

DAFTAR LISTING PROGRAM

1. PROGRAM PENERIMA TELEGRAM

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

char ssid[] = "Widdya";
char password[] = "12345678";
#define BOTtoken "672699620:AAFB9gqXDIOPUBGvAbi2kY9xJhd6Bghu6YU"
String chat_id = "692663923";
WiFiClientSecure client;
UniversalTelegramBot bot(BOTtoken, client);
String data;
void setup() {
  // Open serial communications and wait for port to open:
  Serial.begin(115200);
  pinMode(0, OUTPUT);
  // while (!Serial) {
  //   ; // wait for serial port to connect. Needed for native USB port only
  // }

  WiFi.mode(WIFI_STA);
  WiFi.disconnect();
  delay(100);

  // Attempt to connect to Wifi network:
  Serial.print("Connecting Wifi: ");
  Serial.println(ssid);
  WiFi.begin(ssid, password);

  while (WiFi.status() != WL_CONNECTED) {
    Serial.print(".");
    delay(500);
  }

  Serial.println("");
  Serial.println("WiFi connected");
  Serial.print("IP address: ");
  Serial.println(WiFi.localIP());
  digitalWrite(0, HIGH);
  delay(500);
  digitalWrite(0, LOW);
  delay(500);
  digitalWrite(0, HIGH);
  delay(500);
  digitalWrite(0, LOW);
}
```

```

delay(500);
digitalWrite(0, HIGH);

  bot.sendMessage(chat_id,"TELEGRAM KEBUN STROBERRY SIAP");
}

void loop() { // run over and over
  while(Serial.available()>0) {
    //Serial.write(Serial.read());
    delay(100);
    char C=Serial.read();
    data+= C;

  }

  if (data.length()>0){

    String welcome ="";
    welcome += data;
    bot.sendMessage(chat_id,welcome);

    data="";
  }
}

```

2. PROGRAM SENSOR SUHU DHT11

```

void setup() {
  // put your setup code here, to run once:
  serial.begin(115200);
  Serial.begin(115200);
  //Serial.println("DHTxx test!");
  dht.begin();
  rtc.begin();

  lcd.begin(16, 2);
  lcd.setBacklight(255);
  lcd.clear();

  myservoki.attach(11);
  myservoka.attach(12);

  pinMode(KIPAS, OUTPUT);
  pinMode(LAMPU, OUTPUT);
  pinMode(POMPA, OUTPUT);
  // pinMode(buttonPin, INPUT);

```

```

pinMode(13, OUTPUT);

// digitalWrite(13, LOW);
digitalWrite(KIPAS, LOW); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)
lcd.setCursor(1,0);
lcd.print("WIDYA NURAENI");
lcd.setCursor(4,1);
lcd.print("15520343");

delay(3000);
lcd.clear();

}

```

3. PROGRAM KESELURUHAN ALAT

```

//////////////////////////////////// LOGIKA 1 //////////////////////////////////////
void loop() {
  // put your main code here, to run repeatedly:

  jadwal();
  bacakelembapan();
  bacasuhuwaktu();

  if ( suhu > SUHUMINI && suhu < SUHUSTND1 && kelembapan >=
  KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
  {

  LISTRIKPADAM();
  if (listriksensor<=LISTRIK)
  { lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x <WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
  PADAM");

    }
  }
}
}
}

```

```

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);
lcd.setCursor(0, 1);
lcd.print("LMP ON");
lcd.setCursor(8, 1);
lcd.print("PMPA ON");
myservoka.write(124);
myservoki.write(60);
digitalWrite(KIPAS, LOW); // ( HIGH = ON / LOW = OFF)
digitalWrite(LAMPU, LOW); // ( HIGH = OFF / LOW = ON)
delay(2000);
sensorlampu ();

if (lampusensor<=CAHAYA){
for (long x=0; x < waktu ; x++) {
    delay(1);

    if (x==500) {
lcd.setCursor(0, 1);
lcd.print("LMP RSK ");
serial.println("LAMPU KONDISI RUSAK");
}
}

else if (lampusensor>=CAHAYA){
for (long x=0; x < waktu ; x++) {
    delay(1);

    if (x==500) {
serial.print("SUHU: ");
serial.println(suhu);
serial.print("KELEMBABAN: ");
serial.println(kelembapan);
serial.println("KIPAS OFF");
serial.println("LAMPU ON");
serial.println("POMPA ON");
}
}
}
siram();

}
return;
}

else if (suhu > SUHUSTND1 && suhu < SUHUSTND2 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)

```

```

{
LISTRIKPADAM();
if (listriksensor<=LISTRIK)
{ lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x <WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

  lcd.setCursor(0, 1);
  lcd.print("NORMAL");
  lcd.setCursor(8, 1);
  lcd.print("PMPA ON");
  myservoka.write(124);
  myservoki.write(60);
  digitalWrite(KIPAS, LOW); // ( HIGH = ON / LOW = OFF )
  digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

  for (long x=0; x < waktu; x++) {
    delay(1);
    if (x==500) {
      serial.print("SUHU: ");
      serial.println(suhu);
      serial.print("KELEMBABAN: ");
      serial.println(kelembapan);
      serial.println("KIPAS OFF");
      serial.println("LAMPU OFF");
      serial.println("POMPA ON");
    }
  }

  siram();

}

return;
}

```

```

else if (suhu > SUHUSTND2 && suhu < SUHUMAX1 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
{
  LISTRIKPADAM();
  if (listriksensor<=LISTRIK)
  { lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x < WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

lcd.setCursor(0, 1);
lcd.print("KIPS ON");
lcd.setCursor(8, 1);
lcd.print("PMPA ON");
myservoka.write(124);
myservoki.write(60);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x < waktu; x++) {
  delay(1);
  if (x==500) {
  serial.print("SUHU: ");
  serial.println(suhu);
  serial.print("KELEMBABAN: ");
  serial.println(kelembapan);
  serial.println("KIPAS ON");
  serial.println("LAMPU OFF");
  serial.println("POMPA ON");
  }
}

siram();
}

return;
}

```

```

else if (suhu > SUHUMAX1 && suhu < SUHUMAX2 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
{

LISTRIKPADAM();
if (listriksensor<=LISTRIK)
{ lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x < WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

lcd.setCursor(0, 1);
lcd.print("SUHUMAX");
lcd.setCursor(8, 1);
lcd.print("PMPA ON");
myservoka.write(109);
myservoki.write(80);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x <WAKTUPADAM ; x++) {
  delay(1);
  if (x==500) {
    serial.print("SUHU: ");
    serial.println(suhu);
    serial.print("KELEMBABAN: ");
    serial.println(kelembapan);
    serial.println("KIPAS ON");
    serial.println("LAMPU OFF");
    serial.println("POMPA ON");
  }
}

siram();
}
return;
}

```

```

else if (suhu > SUHUMAX2 && suhu < SUHUMAX3 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
{

LISTRIKPADAM();
if (listriksensor<=LISTRIK)
{ lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x < WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

  lcd.setCursor(0, 1);
  lcd.print("SUHUMAX");
  lcd.setCursor(8, 1);
  lcd.print("PMPA ON");
  myservvoka.write(96);
  myservvoki.write(90);
  digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
  digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x < waktu; x++) {
  delay(1);
  if (x==500) {
  serial.print("SUHU: ");
  serial.println(suhu);
  serial.print("KELEMBABAN: ");
  serial.println(kelembapan);
  serial.println("KIPAS ON");
  serial.println("LAMPU OFF");
  serial.println("POMPA ON");
  }
}

siram();

}
return;
}

```



```

else if (suhu > SUHUMAX3 && suhu < SUHUMAX4 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
{

LISTRIKPADAM();
if (listriksensor<=LISTRIK)
{ lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x <WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

  lcd.setCursor(0, 1);
  lcd.print("SUHUMAX");
  lcd.setCursor(8, 1);
  lcd.print("PMPA ON");
  myservoka.write(86);
  myservoki.write(100);
  digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
  digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

  for (long x=0; x < waktu; x++) {
    delay(1);
    if (x==500) {
      serial.print("SUHU: ");
      serial.println(suhu);
      serial.print("KELEMBABAN: ");
      serial.println(kelembapan);
      serial.println("KIPAS ON");
      serial.println("LAMPU OFF");
      serial.println("POMPA ON");
    }
  }

  siram();

}
return;
}

```

```

else if (suhu > SUHUMAX4 && suhu < SUHUMAX5 && kelembapan >=
KELEMBAPANawal1 && kelembapan < KELEMBAPANawal2)
{

LISTRIKPADAM();
if (listriksensor<=LISTRIK)
{ lcd.setBacklight(0);
  lcd.clear();
  for (long x=0; x <WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
      serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
  }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

  lcd.setCursor(0, 1);
  lcd.print("SUHUMAX");
  lcd.setCursor(8, 1);
  lcd.print("PMPA ON");
  myservoka.write(60);
  myservoki.write(130);
  digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
  digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x < waktu; x++) {
  delay(1);
  if (x==500) {
    serial.print("SUHU: ");
    serial.println(suhu);
    serial.print("KELEMBABAN: ");
    serial.println(kelembapan);
    serial.println("KIPAS ON");
    serial.println("LAMPU OFF");
    serial.println("POMPA ON");
  }
}

siram();
}
return;
}

```

////////////////////////////////// LOGIKA 2 //////////////////////////////////////

```
else if (suhu > SUHUMIN1 && suhu < SUHUSTND1 && kelembapan >
KELEMBAPANawal2 && kelembapan <KELEMBAPANakhr1)
{

    LISTRIKPADAM();
    if (listriksensor<=LISTRIK)
    { lcd.setBacklight(0);
      lcd.clear();
      for (long x=0; x <WAKTUPADAM ; x++) {
        delay(1);

        if (x==500) {
          serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
        }
      }
    }

    if (listriksensor>=LISTRIK)
    {lcd.setBacklight(255);

    lcd.setCursor(0, 1);
    lcd.print("LMP ON");
    lcd.setCursor(8, 1);
    lcd.print("PMPA OFF");
    myservoka.write(124);
    myservoki.write(60);
    digitalWrite(KIPAS, LOW); // ( HIGH = ON / LOW = OFF )
    digitalWrite(LAMPU, LOW); // ( HIGH = OFF / LOW = ON)
    digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)
    delay(2000);
    sensorlampu ();

    if (lampusensor<=CAHAYA){

    for (long x=0; x <waktu; x++) {
      delay(1);
      if (x==500) {
        lcd.setCursor(0, 1);
        lcd.print("LMP RSK ");
        serial.println("LAMPU KONDISI RUSAK");
      }
    }
  }
}
```



```
else if (lampusensor>=CAHAYA){
```

```
for (long x=0; x <waktu; x++) {
```

```
    delay(1);
```

```
    if (x==500) {
```

```
        serial.print("SUHU: ");
```

```
        serial.println(suhu);
```

```
        serial.print("KELEMBABAN: ");
```

```
        serial.println(kelembapan);
```

```
        serial.println("KIPAS OFF");
```

```
        serial.println("LAMPU ON");
```

```
        serial.println("POMPA OFF");
```

```
    }
```

```
  }
```

```
}
```

```
return;
```

```
}
```

```
else if (suhu > SUHUSTND1 && suhu < SUHUSTND2 && kelembapan >  
KELEMBAPANawal2 && kelembapan <KELEMBAPANakhr1)
```

```
{
```

```
    LISTRIKPADAM();
```

```
    if (listriksensor<=LISTRIK)
```

```
    { lcd.setBacklight(0);
```

```
      lcd.clear();
```

```
      for (long x=0; x <WAKTUPADAM ; x++) {
```

```
          delay(1);
```

```
          if (x==500) {
```

```
              serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI  
PADAM");
```

```
          }
```

```
        }
```

```
    }
```

```
if (listriksensor>=LISTRIK)
```

```
{lcd.setBacklight(255);
```

```
lcd.setCursor(0, 1);
```

```
lcd.print("NORMAL");
```

```
lcd.setCursor(8, 1);
```

```
lcd.print("PMPOFF");
```

```
myservoka.write(124);
```

```
myservoki.write(60);
```

```

digitalWrite(KIPAS, LOW); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x <waktu; x++) {
    delay(1);
    if (x==500) {
    serial.print("SUHU: ");
    serial.println(suhu);
    serial.print("KELEMBABAN: ");
    serial.println(kelembapan);
    serial.println("KIPAS OFF");
    serial.println("LAMPU OFF");
    serial.println("POMPA OFF");
    }
}

return;
}

else if (suhu > SUHUSTND2 && suhu < SUHUMAX1 && kelembapan >
KELEMBAPANawal2 && kelembapan <KELEMBAPANakhr1)
{
    LISTRIKPADAM();
    if (listriksensor<=LISTRIK)
    { lcd.setBacklight(0);
    lcd.clear();
    for (long x=0; x < WAKTUPADAM ; x++) {
        delay(1);

        if (x==500) {
            serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
        }
    }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

lcd.setCursor(0, 1);
lcd.print("KIPSON");
lcd.setCursor(8, 1);
lcd.print("PMPOFF");
myservoka.write(124);

```

```

myservoki.write(60);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x <waktu; x++) {
    delay(1);
    if (x==500) {
    serial.print("SUHU: ");
    serial.println(suhu);
    serial.print("KELEMBABAN: ");
    serial.println(kelembapan);
    serial.println("KIPAS ON");
    serial.println("LAMPU OFF");
    serial.println("POMPA OFF");
    }
    }
return;
}

else if (suhu > SUHUMAX1 && suhu < SUHUMAX2 && kelembapan >
KELEMBAPANawal2 && kelembapan <KELEMBAPANakhr1)
{
    LISTRIKPADAM();
    if (listriksensor<=LISTRIK)
    { lcd.setBacklight(0);
    lcd.clear();
    for (long x=0; x <WAKTUPADAM ; x++) {
    delay(1);

    if (x==500) {
    serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
    }
    }
}

if (listriksensor>=LISTRIK)
{lcd.setBacklight(255);

lcd.setCursor(0, 1);
lcd.print("SUHUMAX");
lcd.setCursor(8, 1);
lcd.print("PMPOFF");
myservoka.write(109);
myservoki.write(80);

```

```
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)
```

```
for (long x=0; x <waktu; x++) {
    delay(1);
    if (x==500) {
        serial.print("SUHU: ");
        serial.println(suhu);
        serial.print("KELEMBABAN: ");
        serial.println(kelembapan);
        serial.println("KIPAS ON");
        serial.println("LAMPU OFF");
        serial.println("POMPA OFF");
    }
}
return;
```

```
else if (suhu > SUHUMAX2 && suhu < SUHUMAX3 && kelembapan >
KELEMBAPANawal2 && kelembapan < KELEMBAPANakhr1)
{
    LISTRIKPADAM();
    if (listriksensor <= LISTRIK)
    { lcd.setBacklight(0);
      lcd.clear();
      for (long x=0; x < WAKTUPADAM ; x++) {
          delay(1);

          if (x==500) {
              serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
          }
      }
    }
}
```

```
if (listriksensor >= LISTRIK)
{lcd.setBacklight(255);
```

```
lcd.setCursor(0, 1);
lcd.print("SUHUMAX");
lcd.setCursor(8, 1);
lcd.print("PMPOFF");
myservoka.write(96);
myservoki.write(90);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
```

```

digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x <waktu; x++) {
    delay(1);
    if (x==500) {
        serial.print("SUHU: ");
        serial.println(suhu);
        serial.print("KELEMBABAN: ");
        serial.println(kelembapan);
        serial.println("KIPAS ON");
        serial.println("LAMPU OFF");
        serial.println("POMPA OFF");
    }
}
return;
}

else if (suhu > SUHUMAX3 && suhu < SUHUMAX4 && kelembapan >
KELEMBAPANawal2 && kelembapan <KELEMBAPANakhr1)
{
    LISTRIKPADAM();
    if (listriksensor<=LISTRIK)
    { lcd.setBacklight(0);
    lcd.clear();
    for (long x=0; x <WAKTUPADAM ; x++) {
        delay(1);

        if (x==500) {
            serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
        }
    }
}

}

lcd.setCursor(0, 1);
lcd.print("SUHUMAX ");
lcd.setCursor(8, 1);
lcd.print("PMPOFF");
myservoka.write(86);
myservoki.write(100);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x <waktu; x++) {
    delay(1);
    if (x==500) {

```



```

serial.print("SUHU: ");
serial.println(suhu);
serial.print("KELEMBABAN: ");
serial.println(kelembapan);
serial.println("KIPAS ON");
serial.println("LAMPU OFF");
serial.println("POMPA OFF");
}
}

return;
}

else if (suhu > SUHUMAX4 && suhu < SUHUMAX5 && kelembapan >
KELEMBAPANawal2 && kelembapan < KELEMBAPANakhr1)
{

LISTRIKPADAM();
if (listriksensor <= LISTRIK)
{ lcd.setBacklight(0);
lcd.clear();
for (long x=0; x < WAKTUPADAM; x++) {
delay(1);

if (x==500) {
serial.println("MOHON MAAF LISTRIK KEBUN STROBERRY KONDISI
PADAM");
}
}
}

if (listriksensor >= LISTRIK)
{ lcd.setBacklight(255);

lcd.setCursor(0, 1);
lcd.print("SUHUMAX");
lcd.setCursor(8, 1);
lcd.print("PMPOFF");
myservoka.write(60);
myservoki.write(130);
digitalWrite(KIPAS, HIGH); // ( HIGH = ON / LOW = OFF )
digitalWrite(LAMPU, HIGH); // ( HIGH = OFF / LOW = ON)
digitalWrite(POMPA, HIGH); // ( HIGH = OFF / LOW = ON)

for (long x=0; x < waktu; x++) {
delay(1);
if (x==500) {
serial.print("SUHU: ");
serial.println(suhu);

```

```
serial.print("KELEMBABAN: ");  
serial.println(kelembapan);  
serial.println("KIPAS ON");  
serial.println("LAMPU OFF");  
serial.println("POMPA OFF");  
}  
}  
}  
return;  
  
}
```





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