Test wifi

#include <SoftwareSerial.h>

SoftwareSerial esp(2,3); // RX, TX

String ssid = "sweet";

String password = "Tiramisu";

String server = "eo9\*\*\*\*\*\*\*\*\*gv0.m.pipedream.net";

String path = "/verifying.php";

void setup() {

esp.begin(9600);

Serial.begin(9600);

Serial.println("\nSTART\n");

esp\_reset();

String data[] = {"A","POSITIF"};

httppost(data);

}

void loop() {

// put your main code here, to run repeatedly:

}

void esp\_reset() {

esp.println("AT+RST");

delay(1000);

if (esp.find("OK")){

Serial.println("Module: Reset");

connectWifi();

}

}

void connectWifi() {

String cmd = "AT+CWJAP=\"" + ssid + "\",\"" + password + "\"";

esp.println(cmd);

delay(4000);

if (esp.find("OK")) {

Serial.println("WiFi: Connected!\n");

} else {

Serial.print(".");

connectWifi();

}

}

void httppost (String value[2]){

String content = "groups=" + value[0] + "&rhesus=" + value[1];

esp.println("AT+CIPSTART=\"TCP\",\"" + server + "\",80");

if (esp.find("OK")) Serial.println("TCP connection ready\n");

delay(1000);

String postRequest =

"POST " + path + " HTTP/1.0\r\n" +

"Host: " + server + "\r\n" +

"Accept: \*" + "/" + "\*\r\n" +

"Content-Length: " + content.length() + "\r\n" +

"Content-Type: application/x-www-form-urlencoded\r\n" +

"\r\n" + content;

Serial.println("Post Request:\n\n" + postRequest + "\n");

esp.println("AT+CIPSEND=" + String(postRequest.length()));

delay(500);

if (esp.find(">")){

Serial.print("Sending...");

esp.print(postRequest);

if (esp.find("SEND OK")){

Serial.println(" > Packet sent!\n\n");

while (esp.available()){

String tmpResp = esp.readString();

Serial.println(tmpResp);

}

esp.println("AT+CIPCLOSE");

}

}

}

Test ldr

#define LED\_ON digitalWrite(5,HIGH)

#define LED\_OFF digitalWrite(5,LOW)

const uint8\_t MyAnti[3] = {A2, A1, A0}; // Anti A, Anti B, Anti D

const int Anti[3] = {950, 950, 950}; // Anti A, Anti B, Anti D

const int N = 100;

//////////////////////////////////////////////////////////////////////////

void setup() {

Serial.begin(9600);

Serial.println("\nSTART\n");

pinMode(A0,INPUT);

pinMode(A1,INPUT);

pinMode(A2,INPUT);

pinMode(5,OUTPUT);

fungsi\_utama();

}

void loop() {

// put your main code here, to run repeatedly:

}

//////////////////////////////////////////////////////////////////////////

void fungsi\_utama() {

int value[100];

boolean sensor[3];

String result[2];

LED\_ON;

delay(4000);

for (int s = 0; s < 3; s++){

for (int a = 0; a < N; a++){

value[a] = analogRead(MyAnti[s]);

delay(20);

}

sensor[s] = kalkulasi(value,s) >= 50 ? true : false ;

}

LED\_OFF;

if ( sensor[0] && ! sensor[1]) result[0] = "A"; else

if ( ! sensor[0] && sensor[1]) result[0] = "B"; else

if ( sensor[0] && sensor[1]) result[0] = "AB"; else

if ( ! sensor[0] && ! sensor[1]) result[0] = "O";

result[1] = sensor[2] ? "POSITIF" : "NEGATIF";

Serial.println("\nDarah : " + result[0] + String(result[1] == "POSITIF" ? "+" : "-") + "\n\n");

}

int kalkulasi(int value[100], int n) {

char x[3] = "ABD";

int result = 0;

long mean = 0;

for (int s = 0; s < N; s++){

if (value[s] >= Anti[n]) result++;

mean+=value[s];

}

result = result/N\*100;

mean /= N;

Serial.print("Anti " + String(x[n]) + " : " + String(result) + "%");

Serial.println("\tLDR : " + String(mean));

return result;

}