

New Text Document (2).txt

```
//Programul creaza un acces point la care trebuie conectat telefonul. Peste  
//acesta e creat un server TCP care primeste request-uri "GET" de la clientul  
//SkySafari prin wifi . Datele sunt trimise la portul serial la care e  
//conectat modulul RS232 si montura
```

```
#include <ESP8266WiFi.h>  
WiFiServer server(80);
```

```
//parametri de test  
int inx=0;  
int jnx=0;  
boolean firstGet=true;
```

```
byte line[200];  
unsigned long timp;  
unsigned long preTimp;
```

```
void setup() {
```

```
    Serial.begin(9600); //Serial e asociat cu cei 2 pini Rx si Tx ai placutei 8266  
    Serial1.begin(9600); //Serial1 are doar un singur pin - Tx care este GPIO2 -  
folosit aici doar pentru debug  
    WiFi.mode(WIFI_AP);
```

```
    IPAddress local_IP(192,168,4,22); //adrese alese arbitrar - in Skysafari trebuie  
setat 192.168.4.22 port=80  
    IPAddress gateway(192,168,4,22);  
    IPAddress subnet(255,255,255,0);  
    WiFi.softAPConfig(local_IP, gateway, subnet);  
    WiFi.softAP("BridgeToMount"); //fara pass  
    //WiFi.softAP("BridgeToMount", "12345678"); //cu parola 12345678  
    server.begin();  
    //server.setNoDelay(true);  
    //preTimp=millis();  
}
```

```
void loop() {
```

```
    WiFiClient client = server.available();  
  
    // client.setNoDelay(true);  
    // client.setTimeout(1);
```

```
    jnx++;  
    String command="";  
    int i;  
    int ch=-1;
```

```

if(client.connected()){
inx++;

//    timp=millis();
//    Serial.print("durata Client:");Serial.println(timp-preTimp);
//    preTimp=timp;
    while(ch<0)
    {
        ch=client.read();
    }
    while(ch>=0)
    {
        command+=(char)ch;
        ch=client.read();
        if(ch<0)
        {
            //Serial.println(command);
            //comanda inregistrata complet
            if(command.indexOf("HTTP/1.1")>0) //string primit la primul GET trimis de
client - trebuie ignorat -
            {
                String s = "\r\n\r\n";
                client.print(s);
                client.flush();
                client.stop();
            }
            else //comanda valida
            {
                Serial.print(command); //trimitem comanda la montura

                //primirea char de la montura
                int innB;
                char innC;
                String inStrCGEM="";

                while(!Serial.available()) //asteptam pana apare un raspuns de la
montura
                {

                }

                /*  Serial1.print("inx:");Serial1.println(inx);
                    Serial1.print("jnx:");Serial1.println(jnx);
                    Serial1.print("comanda trimisa la montura2:");
Serial1.println(command); */

```

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```
while (Serial.available()) //primim efectiv raspunsul monturii
{
    innC=Serial.read();
    delay(2);
    //Serial1.print((byte)innC);Serial1.print(".");
    if(Serial.available())
    {
        inStrCGEM += innC;
    }
    else
    {
        inStrCGEM += innC;
        //Serial1.println(" ");Serial1.print("raspuns acumulat in
String:");Serial1.println(inStrCGEM);
        client.print(inStrCGEM); //si il trimitem imediat la skysafari
        inStrCGEM="";
        client.flush();
        client.stop();
    }
}
//client.print("Asdj \r\n\r\n");

}
command="";
//Serial.print("durata citire pachet:");Serial.println(millis()-timp);
}
}

// delay(1);
//Serial.print("jnx:");Serial.println(jnx);

}

//inx=0;
}
```