

```
1  #include <ESP8266WiFi.h>
2  #include <ESP8266WebServer.h>
3
4  IPAddress local_IP(192, 168, 1, 151);
5  IPAddress gateway(192, 168, 1, 1);
6  IPAddress subnet(255, 255, 255, 0);
7
8  char* ssid = "";
9  char* password = "";
10 WiFiServer server(80);
11
12 String header;
13
14 unsigned long currentTime = millis();
15 unsigned long previousTime = 0;
16 const long timeoutTime = 2000;
17
18 const int output1 = 16;
19 const int output2 = 5;
20 const int output3 = 4;
21 const int output4 = 0;
22
23 void setup()
24 {
25     pinMode(output1, OUTPUT);
26     pinMode(output2, OUTPUT);
27     pinMode(output3, OUTPUT);
28     pinMode(output4, OUTPUT);
29
30     digitalWrite(output1, LOW);
31     digitalWrite(output2, LOW);
32     digitalWrite(output3, LOW);
33     digitalWrite(output4, LOW);
34
35     Serial.begin(115200);
36
37
38     Serial.print("Connecting to ");
39     Serial.println(ssid);
40
41     if (!WiFi.config(local_IP, gateway, subnet))
42     {
43         Serial.println("STA failed to configure.");
44     }
45
46     WiFi.begin(ssid, password);
47     while (WiFi.status() != WL_CONNECTED)
48     {
49         delay(500);
50         Serial.print(".");
51     }
52
53     Serial.println("");
54     Serial.println("WiFi connected.");
55     Serial.println("IP address: ");
56     Serial.println(WiFi.localIP());
```

```
57     server.begin();
58
59 }
60
61 void loop()
62 {
63     WiFiClient client = server.available();
64
65     if (client)
66     {
67         Serial.println("New Client.");
68         String currentLine = "";
69         currentTime = millis();
70         previousTime = currentTime;
71         while (client.connected() && currentTime - previousTime <= 7
            timeoutTime)
72         {
73             currentTime = millis();
74             if (client.available())
75             {
76                 char c = client.read();
77                 Serial.write(c);
78                 Serial.println("\n");
79                 header += c;
80                 if (c == '0')
81                 {
82                     digitalWrite(output1, HIGH);
83                     digitalWrite(output2, LOW);
84                     digitalWrite(output3, LOW);
85                     digitalWrite(output4, LOW);
86                     delay(1000);
87                     digitalWrite(output1, LOW);
88                 }
89                 else if (c == '1')
90                 {
91                     digitalWrite(output1, LOW);
92                     digitalWrite(output2, HIGH);
93                     digitalWrite(output3, LOW);
94                     digitalWrite(output4, LOW);
95                     delay(1000);
96                     digitalWrite(output2, LOW);
97                 }
98                 else if (c == '2')
99                 {
100                     digitalWrite(output1, LOW);
101                     digitalWrite(output2, LOW);
102                     digitalWrite(output3, HIGH);
103                     digitalWrite(output4, LOW);
104                     delay(1000);
105                     digitalWrite(output3, LOW);
106                 }
107                 else if (c == '3')
108                 {
109                     digitalWrite(output1, LOW);
110                     digitalWrite(output2, LOW);
111                     digitalWrite(output3, LOW);
```

```
112         digitalWrite(output4, HIGH);
113         delay(1000);
114         digitalWrite(output4, LOW);
115     }
116 }
117 }
118 header = "";
119 client.stop();
120 Serial.println("Client disconnected.");
121 Serial.println("");
122 }
123 }
```