

```
#include <WiFi.h>

const char* ssid = "name of access point";
const char* password = "password of n/w";
int ledPin = 13; // GPIO13

WiFiServer server(80);

void setup() {
    Serial.begin(9600);
    delay(10);

    pinMode(ledPin, OUTPUT);
    digitalWrite(ledPin, LOW);

    // Connect to WiFi network

    Serial.println();
    Serial.println();
    Serial.print("Connecting to ");
    Serial.println(ssid);

    WiFi.begin(ssid, password);

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

    Serial.println("");
    Serial.println("WiFi connected");

    // Start the server

    server.begin();
    Serial.println("Server started");

    // Print the IP address

    Serial.print("Use this URL to connect: ");
    Serial.print("http://");
    Serial.print(WiFi.localIP());
    Serial.println("/");
}
```

```
}

void loop() {
    // Check if a client has connected
    WiFiClient client = server.available();
    if (!client) {
        return;
    }

    // Wait until the client sends some data
    Serial.println("new client");
    while(!client.available()){
        delay(1);
    }

    // Read the first line of the request
    String request = client.readStringUntil('\r');
    Serial.println(request);
    client.flush();

    // Match the request

    int value = LOW;
    if (request.indexOf("/LED=ON") != -1) {
        digitalWrite(ledPin, HIGH);
        value = HIGH;
    }
    if (request.indexOf("/LED=OFF") != -1) {
        digitalWrite(ledPin, LOW);
        value = LOW;
    }
}
```

```
}
```

```
// Set ledPin according to the request
```

```
//digitalWrite(ledPin, value);
```

```
// Return the response
```

```
client.println("HTTP/1.1 200 OK");
```

```
client.println("Content-Type: text/html");
```

```
client.println(""); // do not forget this one
```

```
client.println("<!DOCTYPE HTML>");
```

```
client.println("<html>");
```

```
client.print("Led pin is now: ");
```

```
if(value == HIGH) {
```

```
    client.print("On");
```

```
} else {
```

```
    client.print("Off");
```

```
}
```

```
client.println("<br><br>");
```

```
client.println("<a href=\"/LED=ON\"><button>Turn On </button></a>");
```

```
client.println("<a href=\"/LED=OFF\"><button>Turn Off </button></a><br />");
```

```
client.println("</html>");
```

```
delay(1);
```

```
Serial.println("Client disconnected");
```

```
Serial.println("");
```

```
}
```