

Wi-Fi_LED ZIP

Step 1:

Copy the code from given ZIP file and change the username and password

```
1 #include <ESP8266WiFi.h>
2 #include <WiFiClient.h>
3 #include <ESP8266WebServer.h>
4
5 #define LED_BUILTIN 2 // Set the GPIO pin where you connected your test LED or comment this line out if your dev board has a built-in
6
7 // Set these to your desired credentials.
8 const char *ssid = "CY510-SAFAL";
9 const char *password = "SAFAL123";
10
11 WiFiServer server(80);
12
13
14 void setup() {
15     pinMode(12, OUTPUT);
16     pinMode(13, OUTPUT);
17     pinMode(15, OUTPUT);
18
19     Serial.begin(115200);
20     Serial.println();
21     Serial.println("Configuring access point...");
22
23     // You can remove the password parameter if you want the AP to be open.
24     WiFi.softAP(ssid, password);
25     IPAddress myIP = WiFi.softAPIP();
26     Serial.print("AP IP address: ");
27     Serial.println(myIP);
28 }
```

Step 2:

Verify and upload

```
C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\python3\3.7.2-post1/python3 -I "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\3.0.4-gcc10.3-1757bed/bin/xtensa-lx106-elf-gcc" -CC -E -P -DVTABLES_IN_FLASH "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\3.0.4-gcc10.3-1757bed/bin/xtensa-lx106-elf-gcc" -CC -E -P -DVTABLES_IN_FLASH "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\3.0.4-gcc10.3-1757bed/bin/xtensa-lx106-elf-gcc" -fno-exceptions -Wl,-Map "-Wl,-Map" -Wl,-Map "C:\Users\hales\AppData\Local\Temp\arduino_build_764755\Blink.ino.map" -I "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WiFi" -I "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WebServer" -I "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\python3\3.7.2-post1/python3" -I "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\tools\xtensa-lx106-elf-gcc\3.0.4-gcc10.3-1757bed/bin/xtensa-lx106-elf-gcc" -A "C:\Users\hales\AppData\Local\Temp\arduino_build_764755\Blink.ino.bin" using "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WiFi" -A "C:\Users\hales\AppData\Local\Temp\arduino_build_764755\Blink.ino.bin" using "C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WebServer"
Executable segment sizes:
ICACHE : 32768 - flash instruction cache
FROM : 249576 - code in flash (default or ICACHE_FLASH_ATTR)
IRAM : 29109 / 32768 - code in IRAM (IRAM_ATTR, ISRs...)
DATA : 1504 - initialized variables (global, static) in RAM/HEAP
RODATA : 1560 / 81920 - constants (global, static) in RAM/HEAP
BSS : 25784 - Zeroed Variables (global, static) in RAM/HEAP
Using library ESP8266WiFi at version 1.0 in folder: C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WiFi
Using library ESP8266WebServer at version 1.0 in folder: C:\Users\hales\AppData\Local\Arduino15\packages\esp8266\hardware\esp8266\3.0.2\libraries\ESP8266WebServer
Sketch uses 279749 bytes (26%) of program storage space. Maximum is 1044464 bytes.
Global variables use 28848 bytes (35%) of dynamic memory, leaving 53072 bytes for local variables. Maximum is 81920 bytes.
esptool.py v3.0
Serial port COM5
Connecting....
Chip is ESP8265
Features: WiFi, Embedded Flash
Crystal is 26MHz
MAC: c8:2b:96:70:93:ae
Uploading stub...
Running stub...
Stub running...
```

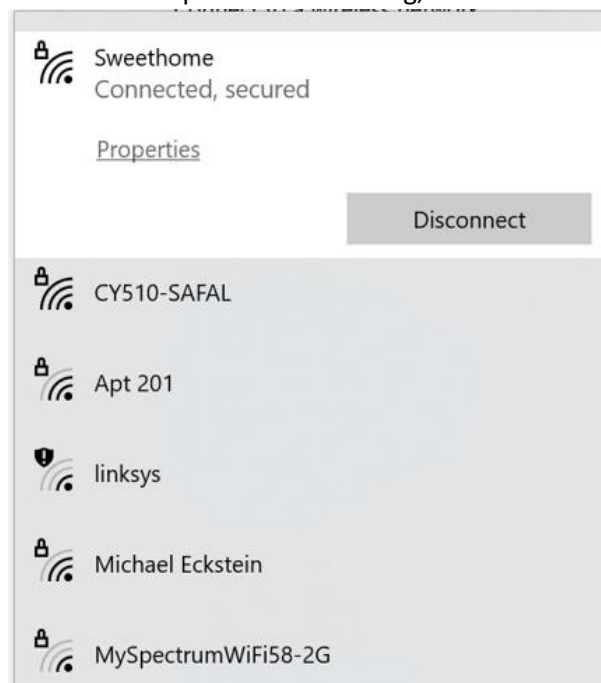
```
Blink | Arduino 1.8.19
File Edit Sketch Tools Help

Blink.g
10
11 WiFiServer server(80);
12
13
14 void setup() {
15   pinMode(12, OUTPUT);
16   pinMode(13, OUTPUT);
17   pinMode(15, OUTPUT);
18
19   Serial.begin(115200);
20   Serial.println();
21   Serial.println("Configuring access point...");
22
23   // You can remove the password parameter if you want the AP to be open.
24   WiFi.softAP(ssid, password);
25   WiFi.softAP(ssid, password);
26
Done uploading
Writing at 0x0000c000... (30 %)
Writing at 0x00010000... (38 %)
Writing at 0x00014000... (46 %)
Writing at 0x00018000... (53 %)
Writing at 0x0001c000... (61 %)
Writing at 0x00020000... (69 %)
Writing at 0x00024000... (76 %)
Writing at 0x00028000... (84 %)
Writing at 0x0002c000... (92 %)
Writing at 0x00030000... (100 %)
Wrote 283904 bytes (207587 compressed) at 0x00000000 in 18.4 seconds (effective 123.1 kbit/s)...
Hash of data verified.

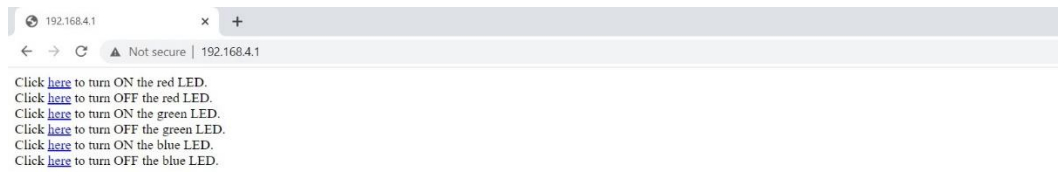
Leaving...
Hard resetting via RTS pin...
```

Step 3:

If the code is updated and running, then connect to wifi



Step 4: Open chrome and connect to 192.168.4.1/H



Step 5: Click the link to change the state of light

