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1  --ESP8266 WiFi+WEB server basic connection demo by Tamas Kovacs 2017-07-17
2
3  print("ESP8266 RT Demo")
4  local str=wifi.ap.getmac();
5  local ssidTemp=string.format("%s%s%s",string.sub(str,10,11),string.sub(str,13,14),string.sub(str,16,17));
6  wifi.setmode(wifi.STATIONAP)
7
8  local cfg={}
9  cfg.ssid="ESP8266_"..ssidTemp;  -- ESP modul SSID, ESP8266_ + MAC cim utolso 6 karaktere, igy egyedi lesz
10  cfg.pwd="12345678"              -- ESP modul jelszo, minimum 8 karakter!
11  wifi.ap.config(cfg)
12  cfg={}
13  cfg.ip="192.168.2.1";           -- ESP modul IP cime.
14  cfg.netmask="255.255.255.0";
15  cfg.gateway="192.168.2.1";
16  wifi.ap.setip(cfg);
17
18  wifi.sta.config("TP-LINK-LOCO","ABCD1234") -- Wifi router SSID, jelszo minimum 8 karakter!
19  wifi.sta.connect()
20
21  local cnt = 0
22  tmr.alarm(0, 1000, 1, function()
23  if (wifi.sta.getip() == nil) and (cnt < 20) then
24      print("Trying Connect to Router, Waiting...")
25      cnt = cnt + 1
26  else
27      tmr.stop(0);
28      print("Soft AP started")
29      print("MAC:"..wifi.ap.getmac().."\\r\\nIP:"..wifi.ap.getip());
30      if (cnt < 20) then print("Conected to Router\\r\\nMAC:"..wifi.sta.getmac().."\\r\\nIP:"..wifi.sta.getip())
31          else print("Conected to Router Timeout")
32      end
33      cnt = nil;cfg=nil;str=nil;ssidTemp=nil;
34      collectgarbage()
35      end
36  end)
37

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```
38 -- Web HTTP server part
39
40 srv=net.createServer(net.TCP)
41 srv:listen(80,function(conn)
42     conn:on("receive", function(client,request)
43         local buf = "";
44         buf = buf.."HTTP/1.0 200 OK\r\nContent-Type: text/html\r\n\r\n<h3> Hello, NodeMCU!</h3>";
45         client:send(buf);
46         client:close();
47         collectgarbage();
48     end)
49 end)
50
```