```
#include <ESP8266WiFi.h>
#include <ESP8266WebServer.h>

/* Put your SSID & Password */
const char* ssid = "NodeMCU";  // Enter SSID
here
const char* password = "12345678";  //Enter
Password here

/* Put IP Address details */
IPAddress local_ip(192,168,1,1);
IPAddress gateway(192,168,1,1);
IPAddress subnet(255,255,255,0);

ESP8266WebServer server(80);

uint8_t LED1pin = D7;
bool LED1status = LOW;

uint8_t LED2pin = D6;
bool LED2status = LOW;

void setup() {
  Serial.begin(115200);
  pinMode(LED1pin, OUTPUT);
  pinMode(LED2pin, OUTPUT);
```

```
  WiFi.softAP(ssid, password);
  WiFi.softAPConfig(local_ip, gateway,
subnet);
  delay(100);

  server.on("/", handle_OnConnect);
  server.on("/led1on", handle_led1on);
  server.on("/led1off", handle_led1off);
  server.on("/led2on", handle_led2on);
  server.on("/led2off", handle_led2off);
  server.onNotFound(handle_NotFound);

  server.begin();
  Serial.println("HTTP server started");
}
void loop() {
  server.handleClient();
  if(LED1status)
  {digitalWrite(LED1pin, HIGH);}
  else
  {digitalWrite(LED1pin, LOW);}

  if(LED2status)
  {digitalWrite(LED2pin, HIGH);}
  else
```

```
  {digitalWrite(LED2pin, LOW);}
}

void handle_OnConnect() {
  LED1status = LOW;
  LED2status = LOW;
  Serial.println("GPIO7 Status: OFF | GPIO6
Status: OFF");
  server.send(200, "text/html",
SendHTML(LED1status,LED2status));
}

void handle_led1on() {
  LED1status = HIGH;
  Serial.println("GPIO7 Status: ON");
  server.send(200, "text/html", SendHTML(true,
LED2status));
}

void handle_led1off() {
  LED1status = LOW;
  Serial.println("GPIO7 Status: OFF");
  server.send(200, "text/html",
SendHTML(false,LED2status));
}
```

```
void handle_led2on() {
  LED2status = HIGH;
  Serial.println("GPIO6 Status: ON");
  server.send(200, "text/html",
SendHTML(LED1status,true));
}

void handle_led2off() {
  LED2status = LOW;
  Serial.println("GPIO6 Status: OFF");
  server.send(200, "text/html",
SendHTML(LED1status,false));
}

void handle_NotFound(){
  server.send(404, "text/plain", "Not found");
}

String SendHTML(uint8_t led1stat,uint8_t
led2stat){
  String ptr = "<!DOCTYPE html> <html>\n";
  ptr +="<head><meta name=\"viewport\"
content=\"width=device-width, initial-scale=1.
0, user-scalable=no\">\n";
  ptr +="<title>LED Control</title>\n";
  ptr +="<style>html { font-family:
```

```
Helvetica; display: inline-block; margin: 0px
auto; text-align: center;}\n";
  ptr +="body{margin-top: 50px;} h1 {color:
#444444;margin: 50px auto 30px;} h3 {color:
#444444;margin-bottom: 50px;}\n";
  ptr +=".button {display: block;width: 80px;
background-color: #1abc9c;border: none;color:
white;padding: 13px 30px;text-decoration:
none;font-size: 25px;margin: 0px auto 35px;
cursor: pointer;border-radius: 4px;}\n";
  ptr +=".button-on {background-color:
#1abc9c;}\n";
  ptr +=".button-on:active {background-color:
#16a085;}\n";
  ptr +=".button-off {background-color:
#34495e;}\n";
  ptr +=".button-off:active
{background-color: #2c3e50;}\n";
  ptr +="p {font-size: 14px;color: #888;
margin-bottom: 10px;}\n";
  ptr +="</style>\n";
  ptr +="</head>\n";
  ptr +="<body>\n";
  ptr +="<h1>ESP8266 Web Server</h1>\n";
  ptr +="<h3>Using Access Point(AP)
Mode</h3>\n";
```

```
   if(led1stat)
  {ptr +="<p>LED1 Status: ON</p><a
class=\"button button-off\"
href=\"/led1off\">OFF</a>\n";}
  else
  {ptr +="<p>LED1 Status: OFF</p><a
class=\"button button-on\"
href=\"/led1on\">ON</a>\n";}

  if(led2stat)
  {ptr +="<p>LED2 Status: ON</p><a
class=\"button button-off\"
href=\"/led2off\">OFF</a>\n";}
  else
  {ptr +="<p>LED2 Status: OFF</p><a
class=\"button button-on\"
href=\"/led2on\">ON</a>\n";}

  ptr +="</body>\n";
  ptr +="</html>\n";
  return ptr;
}
```