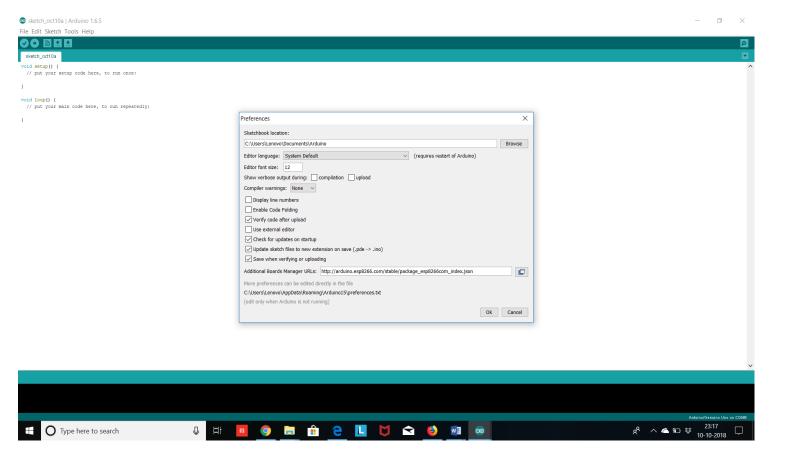
Setting up Node Mcu in Arduino IDE:

- 1. Open Arduino IDE .
- 2. Go to Files->Preferences and copy the given url in additional board manager option.

http://arduino.esp8266.com/stable/package_esp8266com_index.jso_n



3. Now go to Tools->Board Manager and search for ESP8266 and install the given board.



4.Now go to Tools->Board->Node mcu 1.0(12-E)
You are ready for writing the code and uploading to your node mcu.
Code:

onode_mcu_take_2 | Arduino 1.6.5

Serial.print("Scanning.... ");

Serial.println("WiFi connected");

Serial.println("Server started");

// Check if a client has connected
WiFiClient client = server.available();

Serial.print("Use this URL to connect: ");

Serial.println("");

// Start the server
server.begin();

// Print the IP address

Serial.print("http://");
Serial.print(WiFi.localIP());

Serial.println("/");

void loop() {

if (!client) {
return;

```
File Edit Sketch Tools Help
 node_mcu_take_2
#include <ESP8266WiFi.h>
const char* ssid = "nachi"; //Enter your Wifi name
const char* password = "1234567890"; //Enter your Wifi Password
int ledPin = D0;
WiFiServer server(80);
void setup() {
Serial.begin(115200);
delay(10);
pinMode(ledPin, OUTPUT);
digitalWrite(ledPin, LOW);
// Connect to WiFi network
Serial.println();
Serial.print("Connecting to ");
Serial.println(ssid);
WiFi.begin(ssid, password);
while (WiFi.status() != WL_CONNECTED) {
delay(500);
```

onode_mcu_take_2 | Arduino 1.6.5

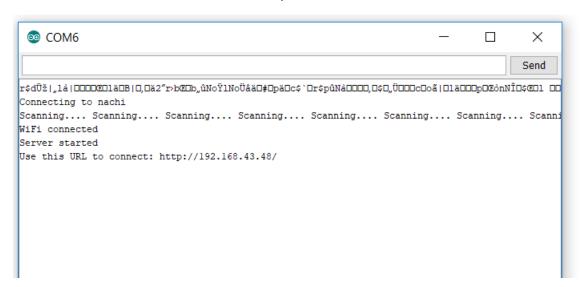
File Edit Sketch Tools Help

```
node_mcu_take_2
```

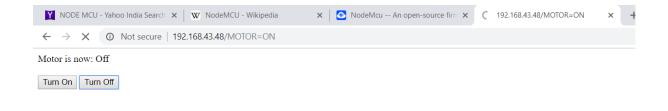
```
void loop() {
// Check if a client has connected
WiFiClient client = server.available();
if (!client) {
return;
// Wait until the client sends some data
Serial.println("new client");
while(!client.available()){
delay(1);
// Read the first line of the request
String request = client.readStringUntil('\r');
Serial.println(request);
client.flush();
// Match the request
int value = LOW;
if (request.indexOf("/MOTORY=ON") != -1) {
digitalWrite(ledPin, HIGH);
value = HIGH;
if (request.indexOf("/MOTOR=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("Motor is now: ");
if(value == HIGH) {
client.print("On");
} else {
```

```
if(value == HIGH) {
client.print("On");
} else {
client.print("Off");
}
client.println("<br/>br><br/>);
client.println("<a href=\"/MOTOR=ON\"\"><button>Turn On </button></a>");
client.println("<a href=\"/MOTOR=OFF\"\"><button>Turn Off </button></a><br/>);
client.println("</html>");
delay(l);
Serial.println("Client disonnected");
Serial.println("");
}
```

- 5. Compile and upload the code.
- 6.Connect positive terminal of the led onto the D0 pin and the negative terminal to the GND pin.
- 7.Once the code is uploaded, run the serial monitor and copy the ip address of the node mcu onto your web browser.



8. A webpage will open up that will enable you to control the led connected at D0.



You can now replace the led by any output device to achieve any home automated task using your web browser!