

OMYCODE.

◆ Current Skill First Application

First Application

Elefore creating an actual "Hello, World!" application using Node.js, let us see the components of a lode.js application. A Node.js application consists of the following three important components:

- Import required modules: We use the require directive to load Node.js modules.
- Create server: A server which will listen to the client's requests similar to Apache HTTP Server.
- Read request and return response: The server created in an earlier step will read the HTTP
 request made by the client which can be a browser or a console and then return the
 response.

Creating Node.js Application

Step 1 - Import Required Module

We use the require directive to load the HTTP module and store the returned HTTP instance into an HTTP variable as follows:

```
var http = require("http");
```

Step 2 - Create Server

We use the created HTTP instance and call http.createServer() method to create a server instance and then we bind it to port 8081 using the listen method associated with the server instance. We pass it a function with the parameters request and response.

Write the sample implementation to always return "Hello World".

```
http.createServer(function (request, response) {
    // Send the HTTP header
    // HTTP Status: 200 : OK
    // Content Type: text/plain
    response.writeHead(200, {'Content-Type': 'text/plain'});
```

```
// Send the response body as "Hello World"
response.end('Hello World\n');
}).listen(8081);

// Console will print the message
console.log('Server running at http://127.0.0.1:8081/');
```

The above code is enough to create an HTTP server which listens, i.e., waits for a request over 8081 port on the local machine.

Creating Node.js Application

Step 3 - Testing Request & Response.

Let's put step 1 and 2 together in a file called **main.js** and start our HTTP server as shown below:

```
var http = require("http");

http.createServer(function (request, response) {
    // Send the HTTP header
    // HTTP Status: 200 : OK
    // Content Type: text/plain
    response.writeHead(200, {'Content-Type': 'text/plain'});

    // Send the response body as "Hello World"
    response.end('Hello World\n');
}).listen(8081);

// Console will print the message
console.log('Server running at http://127.0.0.1:8081/');
```

Now execute the main.js to start the server as follows:

```
$ node main.js
```

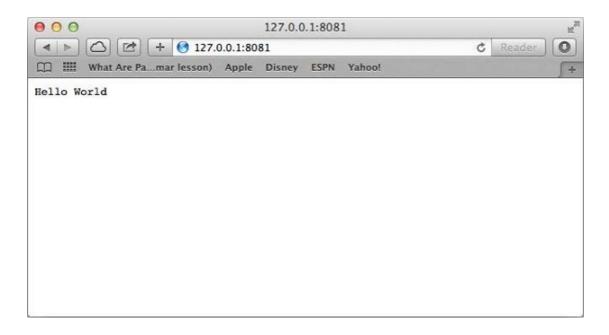
Verify the Output. Server has started.

Creating Node.js Application

Make a Request to the Node.js Server

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Open http://127.0.0.1:8081/ in any browser and observe the following result.



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