

## Chapter 2

### Node JS Example

#### Node.js First Example

There can be console-based and web-based node.js applications.

#### Node.js console-based Example

```
console.log('Hello Webisoftech');
```

Open Node.js command prompt and run the following code:

```
node console_example1.js
```

Here, console.log () function displays message on console.

#### Node.js web-based Example

A node.js web application contains the following three parts:

1. Import required modules: The "require" directive is used to load a Node.js module.
2. Create server: You have to establish a server which will listen to client's request similar to Apache HTTP Server.
3. Read request and return response: Server created in the second step will read HTTP request made by client which can be a browser or console and return the response.

### How to create node.js web applications

**1. Import required module:** The first step is to use ?require? directive to load http module and store returned HTTP instance into http variable. For example:

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

**2. Create server:** In the second step, you have to use created http instance and call http.createServer() method to create server instance and then bind it at port 8081 using listen method associated with

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server instance. Pass it a function with request and response parameters and write the sample implementation to return "Hello World". For example:

```
//.....
```

```
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/');
```

```
//.....
```

3. Combine step1 and step2 together in a file named "main.js".

File: main.js

```
//.....
```

```
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/');
```

```
//.....
```

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How to start your server:

Go to start menu and click on the Node.js command prompt.

Now command prompt is open:

Set path: Here we have save "main.js" file on the desktop.

So type cd desktop on the command prompt. After that execute the main.js to start the server as follows:

```
node main.js
```

Now server is started.

Make a request to Node.js server:

Open <http://127.0.0.1:8081/> in any browser. You will see the following result

Now, if you make any changes in the "main.js" file, you need to again run the "node main.js" command