Local Module Export

#Node JS Notes

Local Modules

- Local modules are modules created locally in your Node.js application.
- These modules include different functionalities of your application in separate files and folders.
- You can also package it and distribute it via NPM, so that Node.js community can use it.
- For example, if you need to connect to MongoDB / Mysql and fetch data then you can create a module for it, which can be reused in your application.

Loading Local Module

- To use local modules in your application, you need to load it using require() function in the same way as core module.
- However, you need to specify the path of JavaScript file of the module.
-

  Example :
  - var myLogModule = require('mongooes');

Create Local Module Using Export keyword

Export Module in Node.js

- The **module.exports** or **exports (Function)** is a special object which is included in every JS file in the Node.js application by default.
- **module** is a variable that represents current module and *exports* is an object that will be exposed as a module.
- So, whatever you assign to *module.exports* or *exports*, will be exposed as a module.

Module system

- In order to structure your program into different files, node.js provides you with a simple module system.
- Example :
  - C (#Include<headerfile>)
  - PHP(Include/Require) ,

Example

- Create 2 Files and Export Module
- Create 2 Files
  - Myfile1.js
  - Myfile.js

Export Literals Example

Create Message.js file

```
module.exports = 'Hello world';
```

app.js

- var msg = require('./Messages.js');
- console.log(msg);

```
C:\> node app.js
Hello World
```

JS file1.js

```
//Create Module and Export
module.exports = "Welcome to File 1 Code";
```

JS file2.js

```
//Load Local Module
var mycontent = require('./file1.js');
//Print Content
console.log(mycontent);

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: cmd

```
Microsoft Windows [Version 10.0.19041.685]
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D:\demo>node file2.js
Welcome to File 1 Code
```
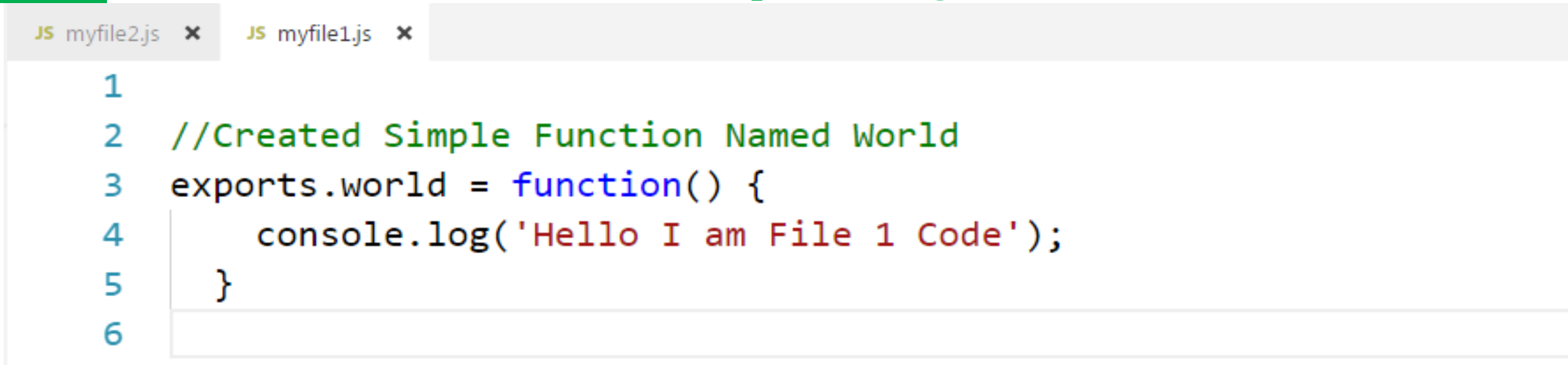

Export Function

Myfile1.js




```
//Created Simple Function Named World
exports.world = function() {
console.log('Hello I am File 1 Code');
}
```

Myfile2.js

myfile2.js | myfile1.js

```
1  var mycontent = require('./myfile1');
2  //Hello is a Simple variable Which store
3  mycontent.world();
4  //Above Code will Print First File Content.
```


```
var mycontent = require('./myfile1');
//Hello is a Simple variable Which store
mycontent.world();
//Above Code will Print First File Content.
```

JS file1.js

JS file1.js > world

```
1   //Create Module and Export
2   exports.world = function()
3   {
4       console.log("I am World Function");
5   }
```

JS file2.js

JS file2.js > ...

```
1   //Load Local Module
2   var mycontent = require('./file1.js');
3   //Print Content
4   mycontent.world();
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: cmd

```
D:\demo>node file2.js
I am World Function
```

require()

- The require() function is a built-in function, and used to include other modules that exist in separate files, a string specifying the module to load.

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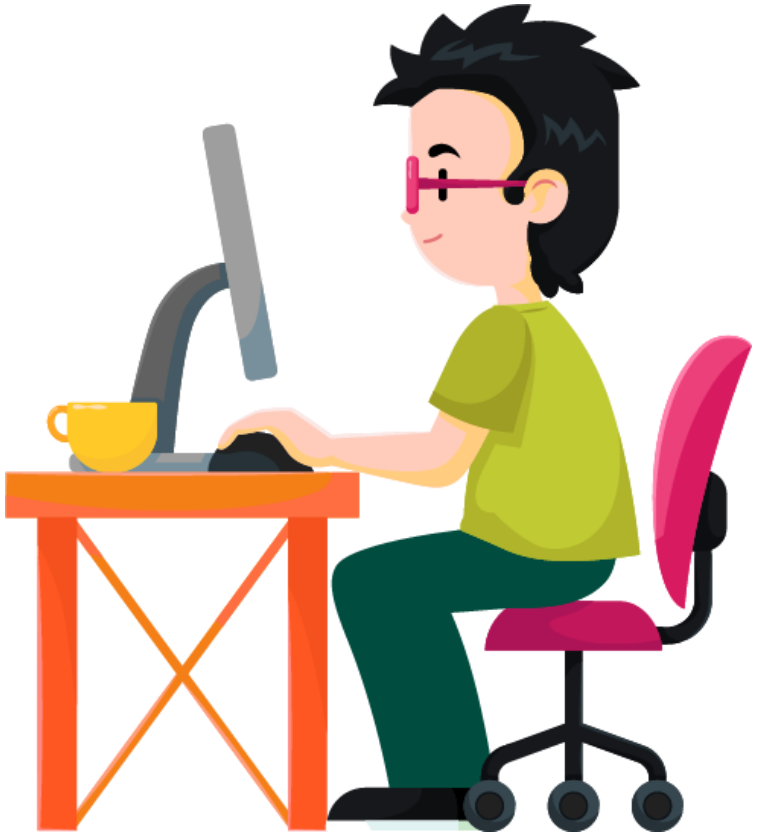

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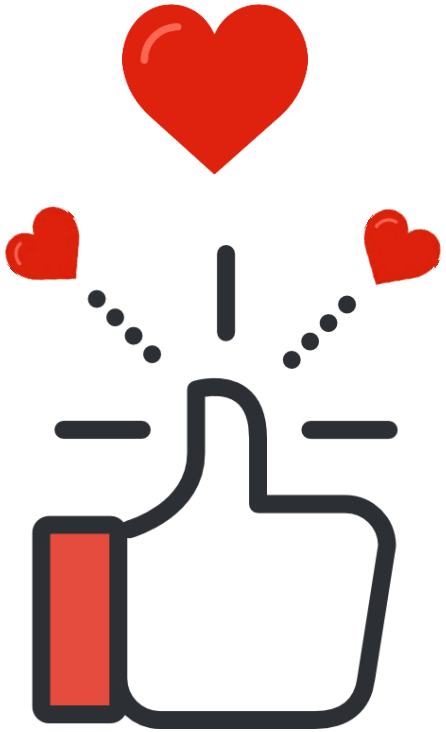
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