File   Edit   Selection   View   Go   Run   Terminal   Help

JS app.js   JS logger.js ✕

06. Module Wrapper Function > JS logger.js > ...

```javascript
1    var x=;//Write this syntactical error on the very first line to see
2    var url = 'http://mylogger.io/log' //Implementation details
3
4    function log(message){
5        // Send an HTTP request
6        console.log(message);
7    }
8    module.exports = log; //export only this function not whole object
9    // So you export a single module or an object
```

EXPLORER

> OPEN EDITORS
∨ APPLICATIONS
  ∨ 02. Global Object ●
    JS app.js   U
  ∨ 03. Modules   ●
    JS app.js   U
  ∨ 04. Creating a ... ●
    JS app.js   U
    JS logger.js   U
  ∨ 05. Loading a ... ●
    JS app.js   U
    JS logger.js   U
  ∨ 06. Module Wr... ●
    JS app.js   U
    JS logger.js 1, U

DEBUG CONSOLE   PROBLEMS 1   OUTPUT   TERMINAL   1: bash

```
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications$ 06.\ Module\ Wrapper\ Function/
bash: 06. Module Wrapper Function/: Is a directory
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications$ cd 06.\ Module\ Wrapper\ Function/
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ node app.js
/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/logger.js:1
(function (exports, require, module, __filename, __dirname) { var x=;//Write this syntactical error on the very first line to see


SyntaxError: Unexpected token ;
    at createScript (vm.js:80:10)
    at Object.runInThisContext (vm.js:139:10)
    at Module._compile (module.js:616:28)
    at Object.Module._extensions..js (module.js:663:10)
    at Module.load (module.js:565:32)
    at tryModuleLoad (module.js:505:12)
    at Function.Module._load (module.js:497:3)
    at Module.require (module.js:596:17)
    at require (internal/module.js:11:18)
    at Object.<anonymous> (/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/app.js:1:75)
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ 
```

> OUTLINE

master*   ⊗ 1 ⚠ 0   Ln 9, Col 46   Spaces: 4   UTF-8   LF   JavaScript

```
[first-app $
[first-app $node app.js
/Users/moshfeghhamedani/Desktop/node-course/first-app/logger.js:1
(function (exports, require, module, __filename, __dirname) { var x =;
                                                                      ^

SyntaxError: Unexpected token ;
    at createScript (vm.js:80:10)
    at Object.runInThisContext (vm.js:139:10)
    at Module._compile (module.js:599:28)
    at Object.Module._extensions..js (module.js:646:10)
    at Module.load (module.js:554:32)
    at tryModuleLoad (module.js:497:12)
    at Function.Module._load (module.js:489:3)
    at Module.require (module.js:579:17)
    at require (internal/module.js:11:18)
    at Object.<anonymous> (/Users/moshfeghhamedani/Desktop/node-course/first-app/app.js
:2:13)
first-app $
```
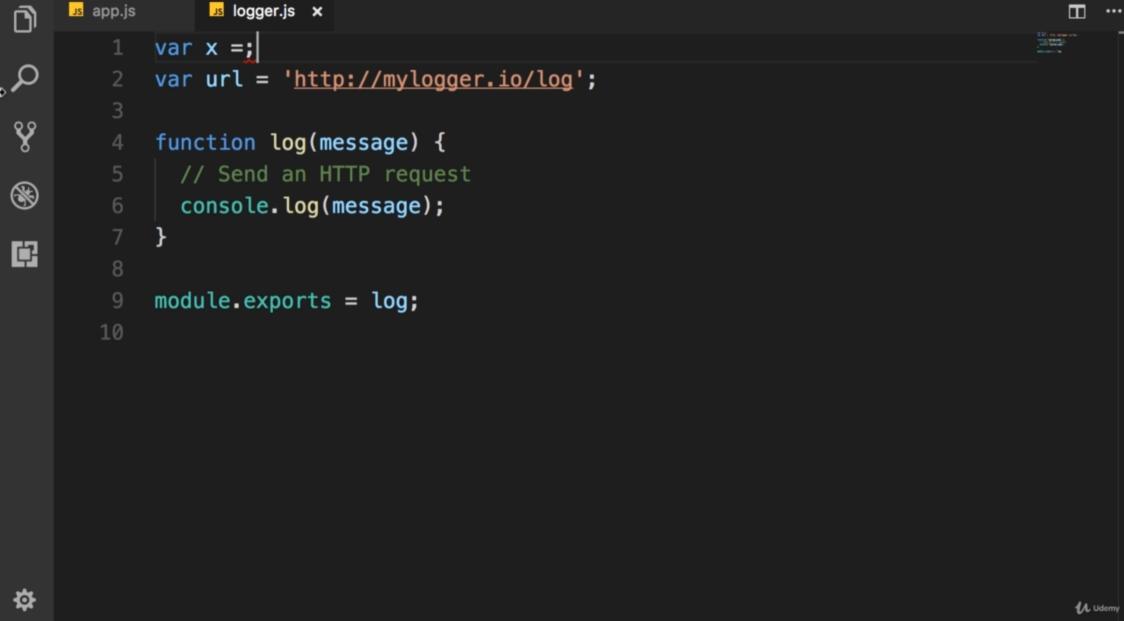
```javascript
var x =;
var url = 'http://mylogger.io/log';

function log(message) {
  // Send an HTTP request
  console.log(message);
}

module.exports = log;
```

```js
(function (exports, require, module, __filename, __dirname) {

  var url = 'http://mylogger.io/log';

  function log(message) {
    // Send an HTTP request
    console.log(message);
  }

  module.exports = log;

})
```

Activities Visual Studio Code Sun 07:47

File Edit Selection View Go Run Terminal Help

EXPLORER

JS app.js   JS logger.js ✕

06. Module Wrapper Function > JS logger.js > ...

```js
10
11  (function (exports, require, module, __filename, __dirname) {
12
13      var url = 'http://mylogger.io/log' //Implementation details
14
15      function log(message) {
16          // Send an HTTP request
17          console.log(message);
18      }
19      module.exports = log; //export only this function not whole object
20      // So you export a single module or an object
21
22  })
23
```

> OPEN EDITORS
∨ APPLICATIONS
  ∨ 02. Global Object   ●
    JS app.js   U
  ∨ 03. Modules   ●
    JS app.js   U
  ∨ 04. Creating a ...   ●
    JS app.js   U
    JS logger.js   U
  ∨ 05. Loading a ...   ●
    JS app.js   U
    JS logger.js   U
  ∨ 06. Module Wr...   ●
    JS app.js   U
    JS logger.js   U

DEBUG CONSOLE   PROBLEMS   OUTPUT   TERMINAL   1: bash

```
bash: 06. Module Wrapper Function/: Is a directory
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications$ cd 06.\ Module\ Wrapper\ Function/
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ node app.js
/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/logger.js:1
(function (exports, require, module, __filename, __dirname) { var x=;//Write this syntactical error on the very first line to see


SyntaxError: Unexpected token ;
    at createScript (vm.js:80:10)
    at Object.runInThisContext (vm.js:139:10)
    at Module._compile (module.js:616:28)
    at Object.Module._extensions..js (module.js:663:10)
    at Module.load (module.js:565:32)
    at tryModuleLoad (module.js:505:12)
    at Function.Module._load (module.js:497:3)
    at Module.require (module.js:596:17)
    at require (internal/module.js:11:18)
    at Object.<anonymous> (/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/app.js:1:75)
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ ^C
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ 
```

> OUTLINE

master* ⊗ 0 ⚠ 0   Ln 22, Col 3   Spaces: 4   UTF-8   LF   JavaScript

Module Wrapper Function

File   Edit   Selection   View   Go   Run   Terminal   Help

JS app.js   JS logger.js   ✕

06. Module Wrapper Function > JS logger.js > <function>

```javascript
13          var url = 'http://mylogger.io/log' //Implementation details
14
15          function log(message) {
16              // Send an HTTP request
17              console.log(message);
18          }
19          module.exports = log; //export only this function not whole object
20          // So you export a single module or an object
21
22          module.exports.log = log;
23          exports.log = log; //You can write it both ways
24          //But you can't reset export
25          exports = log;
26
```

DEBUG CONSOLE   PROBLEMS   OUTPUT   TERMINAL   1: bash

```
        at Module.require (module.js:596:17)
        at require (internal/module.js:11:18)
        at Object.<anonymous> (/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/app.js:1:75)
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ ^C
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ node app.js
/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/app.js:2
log('message');
^

TypeError: log is not a function
        at Object.<anonymous> (/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/app.js:2:1)
        at Module._compile (module.js:652:30)
        at Object.Module._extensions..js (module.js:663:10)
        at Module.load (module.js:565:32)
        at tryModuleLoad (module.js:505:12)
        at Function.Module._load (module.js:497:3)
        at Function.Module.runMain (module.js:693:10)
        at startup (bootstrap_node.js:188:16)
        at bootstrap_node.js:609:3
dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$ []
```

Ln 25, Col 19   Spaces: 4   UTF-8   LF   JavaScript

```javascript
28  // })
29
30  //Javascript don't run our code dirctly but it wraps its module in a function like above
31  //require function appears to be global but it is not
32
33  console.log(__filename);
34  console.log(__dirname);
35  var url = 'http://mylogger.io/log' //Implementation details
36  function log(message) {
37      // Send an HTTP request
38      console.log(message);
39  }
40  module.exports = log; //export only this function not whole object
41  // So you export a single module or an object
42  exports.log = log;
43
44
45
```

dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Modrapper Function$ node app.js
/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function/logger.js
/home/dandy/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function

message

dandy@My-Ubuntu:~/Keep/Node.js/02. Node Module System/Applications/06. Module Wrapper Function$