

Node.js Modules

- Module is a set of functions. (think about js libraries such as Math).
- 3 types of modules
 1. Local Modules (own created modules)
 2. Built-in Modules (node.js own modules) - http, url, path, fs, (no need to install)
 3. External modules (managed by npm)

Lesson1 > JS student.js > ...

```
5  const getAge = () => {
6    return "25";
7  }
8
9  const cgpa = 3.92;
10
11  exports.getName = getName;
12  exports.getAge = getAge;
13  exports.result = cgpa;
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

2: powershell

Anisul Islam

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js

Anisul Islam

25

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js

Anisul Islam

25

3.92

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1>

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```

Lesson1 > JS student.js > <unknown> > cgpa
10
11 // exports.getName = getName;
12 // exports.getAge = getAge;
13 // exports.result = cgpa;
14
15 module.exports = {
16     getName,
17     getAge,
18     cgpa
19 }

```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE 2: powershell

```

Anisul Islam
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js
Anisul Islam
25
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js
Anisul Islam
25
3.92
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1>

```

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instruction.txt JS index.js X JS student.js

Lesson1 > JS index.js > ...

```
1 const s1 = require('./student');  
2  
3 console.log(s1.getName());  
4 console.log(s1.getAge());  
5 console.log(s1.cgpa);
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

2: powershell

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js

Anisul Islam

25

undefined

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js

Anisul Islam

25

3.92

PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1>

master* 0 0

Ln 5, Col 20

Spaces: 4

UTF-8

CRLF

Babel JavaScript

Go Live

Prettier

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instruction.txt JS index.js X JS student.js

Lesson1 > JS index.js > ...

```
1 const {getName} = require('./student');
2
3 console.log(getName());
4
```

TERMINAL

PROBLEMS

OUTPUT

DEBUG CONSOLE

2: powershell

```
?[90m at Module._compile (internal/modules/cjs/loader.js:1075:30)?[39m
?[90m at Object.Module._extensions..js (internal/modules/cjs/loader.js:1096:10)?[39m
?[90m at Module.load (internal/modules/cjs/loader.js:940:32)?[39m
?[90m at Function.Module._load (internal/modules/cjs/loader.js:781:14)?[39m
?[90m at Function.executeUserEntryPoint [as runMain] (internal/modules/run_main.js:72:12)?[39m
?[90m at internal/main/run_main_module.js:17:47?[39m
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js
Anisul Islam
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1>
```

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master* 0 0

Ln 3, Col 22 Spaces: 4 UTF-8 CRLF

Babel JavaScript

Go Live

Prettier

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instruction.txt JS index.js JS student.js

```
Lesson1 > JS student.js > getName
1 exports.getName = () => {
2   return "Anisul Islam";
3 }
4
5 const getAge = () => {
6   return "25";
7 }
8
9 const cgpa = 3.92;
10
```

2: powershell

```
?[90m at Module._compile (internal/modules/cjs/loader.js:1075:30)?[39m
?[90m at Object.Module._extensions..js (internal/modules/cjs/loader.js:1096:10)?[39m
?[90m at Module.load (internal/modules/cjs/loader.js:940:32)?[39m
?[90m at Function.Module._load (internal/modules/cjs/loader.js:781:14)?[39m
?[90m at Function.executeUserEntryPoint [as runMain] (internal/modules/run_main.js:72:12)?[39m
?[90m at internal/main/run_main_module.js:17:47?[39m
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1> node index.js
Anisul Islam
PS C:\Users\Anisul Islam\Dropbox\full stack\back end\Node Tutorial\NodeBasic\Lesson1>
```