

Node.js Modules

Topics : [Node.js](#)

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What is Node.js Modules ?

Node.js Modules is a set of functions which you can include in your application. Node.js Modules is same as JavaScript libraries.

Node.js provides many built-in modules like http, express fs, path, events, string, moments, events, os , url etc.

We can include all Node.js module in our applicaton using **require()** function.

How to access Node.js module?

Write below code in app.js . You can access module using **require()** function as below.

```
const http = require('http');

const port = 5555;

const server = http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.end('Welcome to aryatechno tutorials!');
});

server.listen(port, function() {
  console.log(`Server running at port ${port}: http://127.0.0.1:${port}`)
})
```

Run above code using cmd : **node app.js**

How to create our own modules?

We can create our own modules using **exports** keyword as below.

```
exports.moduleName = async function (req, res, next) {
  return data;
}
```

Use the exports keyword to make properties and methods available outside the module file.

Example,

Create calculation.js file

```
exports.add = function (a, b) {  
    return a + b;  
};  
  
exports.subtract = function (a, b) {  
    return a - b;  
};
```

create app.js file.

```
var http = require('http');  
  
const math = require('./calculation');  
const server = http.createServer(function (req, res) {  
    res.writeHead(200, { 'Content-Type': 'text/html' });  
    res.write("<br>Addition:" + math.add(5,4));  
    res.end("<br>Hello, This is a Node.js server!\n");  
});  
  
console.log("Addition:", math.add(5, 3));  
  
console.log("Subtraction:", math.subtract(5, 3));  
  
server.listen(3000, () => {  
    console.log('Server running on http://localhost:3000');  
});
```

Run server node app.js

Output will be as below.

Addition: 8

Subtraction: 2

Server running on http://localhost:3000