Node – Exercises (Exercises N1-N4)

1.

```js
exercise_01 > JS helloWorld.js > ...
1    var http = require('http');
2    http.createServer(function(req,res){
3        res.writeHead(200,{'content-type':'text/html'});
4        res.end('Hello world!')
5    }).listen(8080);
6    console.log('Node.js web server at port 8080 is running..')
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

d-----          11/11/2021  12:16 PM              play


PS C:\NodeJS_Files> cd .\exercise_01\
PS C:\NodeJS_Files\exercise_01> dir


    Directory: C:\NodeJS_Files\exercise_01


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         11/11/2021  12:04 PM            227 helloWorld.js


PS C:\NodeJS_Files\exercise_01> node .\helloWorld.js
Node.js web server at port 8080 is running..
```

```
← → C  ⓘ localhost:8080

⊞ Apps   Contact - Compute...  f Facebook   OpenJDK   index | TIOBE - The...   AdoptOpenJDK - O...   Date (Java SE 16 &...

Hello world!
```

2.

```
exercise_N2 > JS myModule.js > ...
1    myDate = function () {
2        return Date();
3        };
4        exports.myDate = myDate;
```

← → C   ⓘ localhost:8080

▦ Apps   🌑 Contact - Compute...   f Facebook   ▲ OpenJDK   ◈ index | TIOBE - The...   ▦ AdoptOpenJDK - O...   🌐 Dat

The date and time are currently: Thu Nov 11 2021 20:07:03 GMT-0600 (Central Standard Time)

```
exercise_N2 > JS Node.js > ⊘ http.createServer() callback
1    var http = require('http');
2    var dt = require('./myModule');
3    http.createServer(function (req, res) {
4    res.writeHead(200,
5    {'Content-Type': 'text/html'});
6    res.write("The date and time are currently: " + dt.myDate());
7    res.end();
8    }).listen(8080);
```

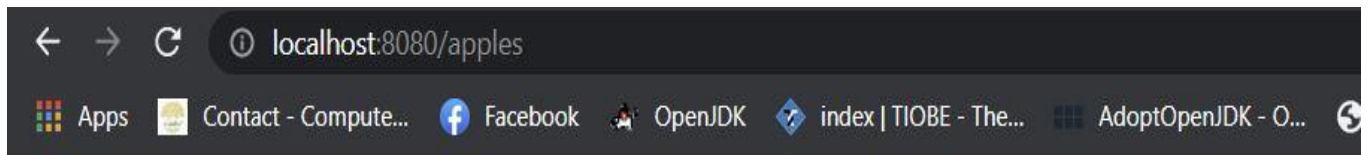PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

Windows PowerShell
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PS C:\NodeJS_Files> cd .\exercise_N2\
PS C:\NodeJS_Files\exercise_N2> node .\Node.js

3.

localhost:8080/apples

Apps · Contact - Compute... · Facebook · OpenJDK · index | TIOBE - The... · AdoptOpenJDK - O...

/apples

```
Exercise_N3.js > JS demo_request.js > ...
1    var http = require('http');
2    http.createServer(function (req, res) {
3    res.writeHead(200, {'Content-Type': 'text/html'});
4    res.write(req.url);
5    res.end();
6    }).listen(8080);
```
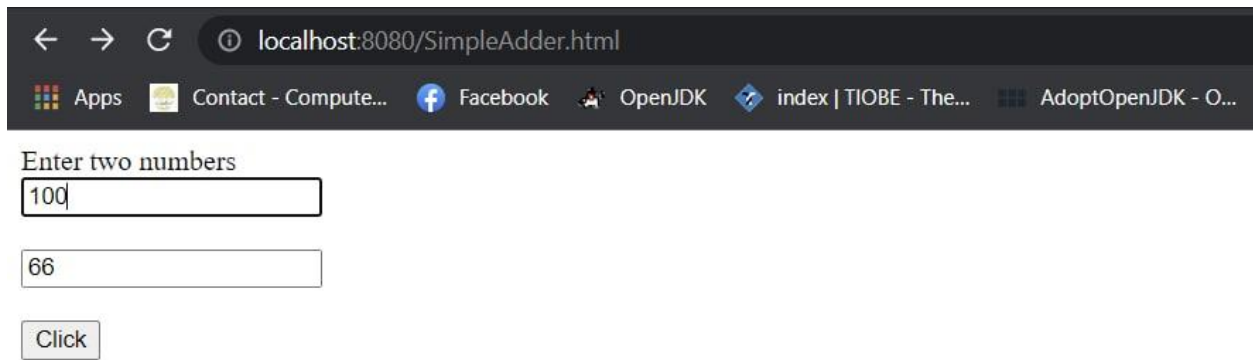
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
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PS C:\NodeJS_Files> cd .\Exercise_N3.js\
PS C:\NodeJS_Files\Exercise_N3.js> node .\demo_request.js
```
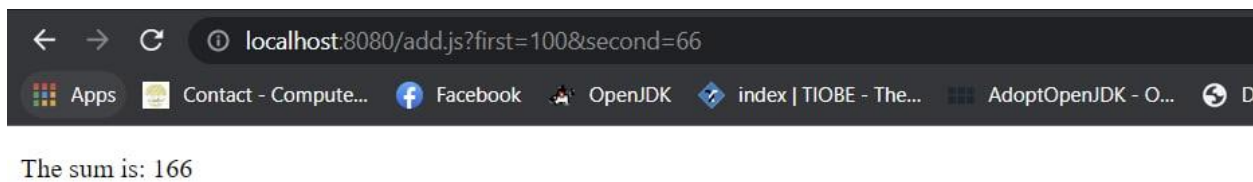
4.

Enter two numbers

100

66

Click

The sum is: 166

Template Literal

```javascript
exports.add = function (req, res, vals) {
    console.log('inside add.js')
    var sum = parseInt(vals.first) + parseInt(vals.second);
    res.writeHead(200, {
        'Content-Type': 'text/html'
    });
    res.write(`<!DOCTYPE html>
    <html>
        <head><meta charset=\"utf-8\"/>
    <title>Calculator Web Site</title>
    </head>
    <body>
    <p>The sum is: ${String(sum)}</p>
    </body>
    </html>`);
    res.end();
};
```

```javascript
1    var http = require('http');
2    var url = require('url');
3    var fs = require('fs');
4    var addmod = require('./addMode.js');
5  ∨ http.createServer(function (req, res) {
6        var q = url.parse(req.url, true);
7        var filename = "." + q.pathname;
8        if (q.pathname=="/add.js")
9        addmod.add(req,res,q.query)
10       else
11 ∨     fs.readFile(filename, function(err, data) {
12 ∨     if (err) {
13       res.writeHead(404, {'Content-Type': 'text/html'});
14       return res.end("404 Not Found");
15       }
16       res.writeHead(200); // Content-Type not included
17       res.write(data);
18       return res.end();
19       });
20       }).listen(8080);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

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PS C:\NodeJS_Files> cd .\Exercise_N4\
PS C:\NodeJS_Files\Exercise_N4> node .\AdderWebServer.js