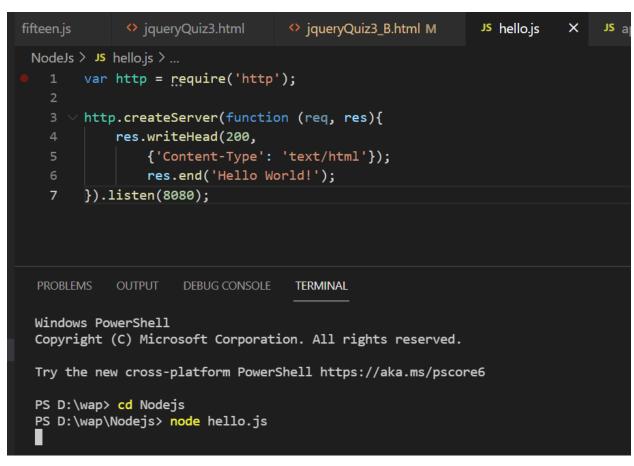
Exercise N1

- Download Node.js from the official Node.js website and install it: https://nodejs.org.
- Create a folder for your Node.js files (NodeFolder).
- Save the Hello World program in a file using VS Code:

Ans.





Hello World!

Creating New Modules (Exercise N2)

Ans.

```
Go Run Terminal Help

JS myModule.js X JS node.js JS app.js

NodeJs > JS myModule.js > ...

1 var date = function(){
2 return Date();
3 };
4
5 module.exports = date;
```

```
JS myModule.js
                  JS node.js
                                   JS app.js
                                                    JS multi.js
                                                                    jqueryQuiz3_C.html
NodeJs > JS node.js > 分 http.createServer() callback
       var http = require('http');
       var date = require('./myModule');
       http.createServer(function(req, res){
           res.writeHead(200,
               {'Content-Type': 'text/html'});
           res.write("The date and time are currently : " + date());
           res.end();
       }).listen(8080);
                                   TERMINAL
           OUTPUT
                    DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\wap> cd Nodejs
PS D:\wap\Nodejs> node node.js
   127.0.0.1:8080
                 127.0.0.1:8080
       CO
```

The date and time are currently: Thu Jan 27 2022 23:49:18 GMT-0600 (Central Standard Time)

BolsaValores

Abap

Seidor

Essence

Inetum

Phicube

Apps

ITST

MESTRADO

Exercise N3

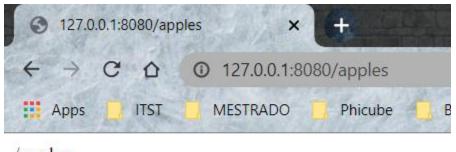
Run the code shown below and then enter the following in your Browser:

http://localhost:8080/apples http://localhost:8080/pears

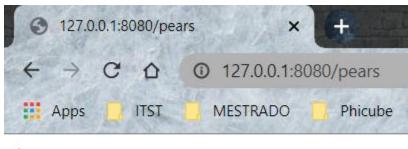
http://localhost:8080/strawberries

Ans.

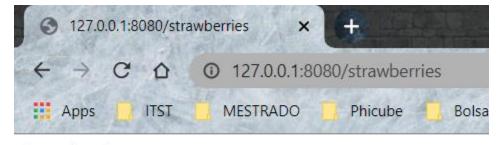
```
JS myModule.js
                  JS node.js
                                   JS fruits.js
                                              ×
                                                                    JS multi.js
                                                   JS app.js
NodeJs > Js fruits.js > ...
      var http = require('http');
       http.createServer(function(req, res){
           res.writeHead(200, {'Content-Type': 'text/html'});
           res.write(req.url);
           res.end();
       }).listen(8080);
PROBLEMS
           OUTPUT DEBUG CONSOLE
                                   TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\wap> cd Nodejs
PS D:\wap\Nodejs> node node.js
PS D:\wap\Nodejs> node fruits.js
```



/apples



/pears



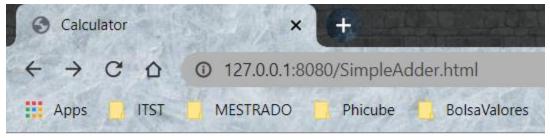
/strawberries

Exercise N4: Simple Adder

```
JS myModule.js
                  JS node.js
                                   JS fruits.js
                                                    SimpleAdder.html X
                                                                          JS addmod
NodeJs > ♦ SimpleAdder.html > ♦ html
       <!doctype html>
       <html lang="en">
       <head>
           <meta charset="utf-8">
           <title>Calculator</title>
       </head>
       <form action =</pre>
 11
       "http://localhost:8080/add.js">
 12
 13
       <div>Enter two numbers
       <input type = "text" name="first"/><br/>
       <input type = "text" name="second"/><br/>
       <input type="submit" value="Click"/>
       </div>
       </form>
       </body>
 20
       </html>
```

```
JS myModule.js
                 JS node.js
                                 JS fruits.js
                                                 SimpleAdder.html
                                                                       JS addmod.js X
NodeJs > JS addmod.js > ...
  1 v exports.add = function (req, res, vals) {
           var sum = parseInt(vals.first) + parseInt(vals.second);
           res.writeHead(200, { 'Content-Type': 'text/html' });
           res.write("<!DOCTYPE html>");
           res.write("<html>");
           res.write("<head><meta charset=\"utf-8\"/>");
           res.write("<title>Calculator Web Site</title>");
           res.write("</head>");
           res.write("<body>");
           res.write("The sum is: ");
           res.write(String(sum));
           res.write("");
           res.write("</body>");
           res.write("</html>");
           return res.end();
 16
       };
```

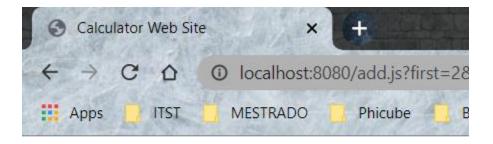
```
JS node.js
                                   JS fruits.js
                                                                          JS addmod.js
                                                                                           JS AdderWebServer.js X
NodeJs > JS AdderWebServer.js > ...
      var http = require('http');
      var url = require('url');
      var fs = require('fs');
      var addmod = require('./addmod.js');
      http.createServer(function (req, res) {
           var q = url.parse(req.url, true);
           var filename = "." + q.pathname;
if (q.pathname == "/add.js")
               addmod.add(req, res, q.query)
               fs.readFile(filename, function (err, data) {
                    if (err) {
                        res.writeHead(404, { 'Content-Type': 'text/html' });
                        return res.end("404 Not Found");
                    res.writeHead(200); // Content-Type not included
                    res.write(data);
                    return res.end();
 20
       }).listen(8080);
                                   TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\wap> cd Nodejs
PS D:\wap\Nodejs> node node.js
PS D:\wap\Nodejs> node fruits.js
PS D:\wap\Nodejs> node AdderWebServer.js
PS D:\wap\Nodejs> node AdderWebServer.js
```



Enter two numbers 2

3

Click



The sum is: 5