

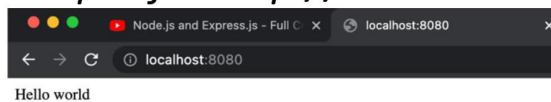
## Exercise N1

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

const server = http.createServer((req, res) => {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.end('Hello world');
});

server.listen(8080);
```

*Output for <http://localhost:8080>*



## Exercise N2

*myModule.js file*

```
const myDate = function () { return Date(); };

exports.myDate = myDate;
```

*Node.js file*

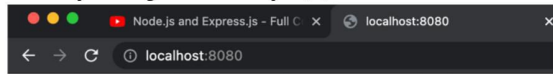
```
const dt = require('./myModule')
const http = require('http');

const server = http.createServer((req, res) => {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.write("The date and time are currently: " + dt.myDate());
  res.end();
});

server.listen(8080);

// request => http://localhost:8080/
```

## Output for `http://localhost:8080`



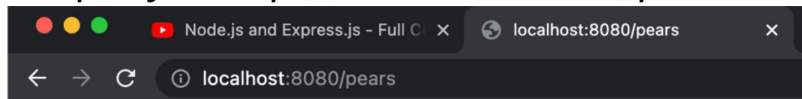
The date and time are currently: Thu Nov 11 2021 17:13:41 GMT-0500 (Central Daylight Time)

## Exercise N3:

```
const http = require('http');
const server = http.createServer(function (req, res) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.write(req.url);
  res.end();
});

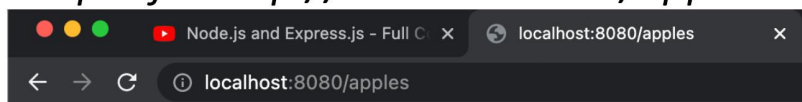
server.listen(8080)
// request http://localhost:8080/apples      response => /apples
// request http://localhost:8080/pears       response => /pears
// request http://localhost:8080/strawberries response => /strawberries
```

## Output for `http://localhost:8080/pears`



/pears

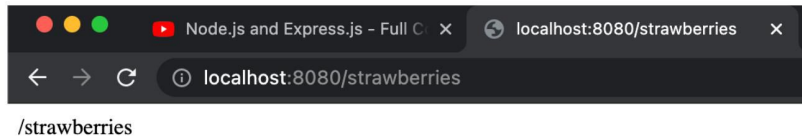
## Output for `http://localhost:8080/apples`



/apples

node-v16.9.1.pkg

*Output for http://localhost:8080/strawberries*



Exercise N4:

*AdderWebServer.js file*

```
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)
  else
    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': 'text/html' }); //
Content-Type not included
      res.write(data);
      return res.end();
    });
}).listen(8080);
```

## *addmod.js file*

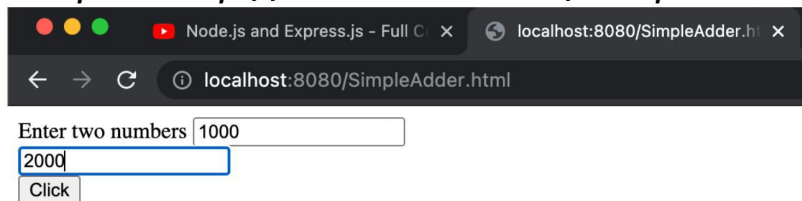
```
exports.add = function (req, res, vals) {
  var sum = parseInt(vals.first) + parseInt(vals.second);
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.write(`<!DOCTYPE html>
<html>
<head><meta charset=\"utf-8\"/>
<title>Calculator Web Site</title> </head>
<body>
<p>The sum is: ${String(sum)}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

/*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("<p>The sum is: ");
  res.write(String(sum));
  res.write("</p>");
  res.write("</body>");
  res.write("</html>");
  return res.end();
};*/
```

## *SimpleAdder.html file*

```
<form action="http://localhost:8080/add.js">
  <div>Enter two numbers
    <input type="text" name="first" /><br />
    <input type="text" name="second" /><br />
    <input type="submit"
      value="Click" />
  </div>
</form>
```

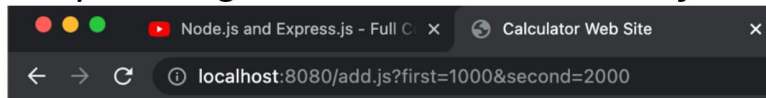
## *Output: http://localhost:8080/SimpleAdder.html*



A screenshot of a web browser window. The address bar shows 'localhost:8080/SimpleAdder.html'. The page content includes the text 'Enter two numbers' followed by two text input fields. The first field contains '1000' and the second field contains '2000'. Below the input fields is a button labeled 'Click'.

node-v16.9.1.pkg

## *Output we get when we submit the form*



A screenshot of a web browser window. The address bar shows 'localhost:8080/add.js?first=1000&second=2000'. The page content displays the text 'The sum is: 3000'.

The sum is: 3000