

Node.js Exercise 1

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans1.js
```

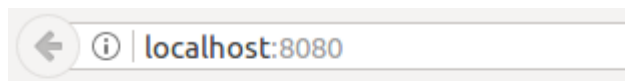


The screenshot shows a code editor with two files open. The left file, `sum.js`, contains the following code:

```
1 exports.sum_average = function (num1,num2) {  
2   return (num1+num2/2);  
3 };  
4
```

The right file, `ans1.js`, contains the following code:

```
1  
2   var http = require('http');  
3   var dt = require('./sum.js');  
4  
5   http.createServer(function (req, res) {  
6     res.writeHead(200, {'Content-Type': 'text/html'});  
7     res.write("average of the two numbers: " + dt.sum_average(123,321));  
8     res.end();  
9   }).listen(8080);  
10
```



average of the two numbers: 283.5

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans1.js
```

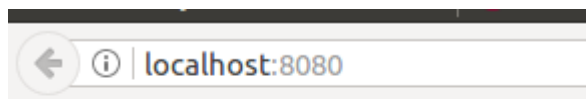


The screenshot shows a code editor with two files open. The left file, `sum.js`, contains the following code:

```
1 exports.sum_average = function (num1,num2) {  
2   return (num1+num2);  
3 };  
4
```

The right file, `ans1.js`, contains the following code:

```
1  
2   var http = require('http');  
3   var dt = require('./sum.js');  
4  
5   http.createServer(function (req, res) {  
6     res.writeHead(200, {'Content-Type': 'text/html'});  
7     res.write("average of the two numbers: " + dt.sum_average(123,321));  
8     res.end();  
9   }).listen(8080);  
10
```



average of the two numbers: 444

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node node.js
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans3.js
Saved!
```

```
1 var fs = require('fs');
2
3 fs.writeFile('ukinode.txt', function (err) {
4   if (err) throw err;
5   console.log('Saved!');
6 });
7
```

```
1 var fs = require('fs');
2
3 fs.appendFile('ukinode.txt', 'this is very impotant calss for uki i am uki student.', function (err) {
4   if (err) throw err;
5   console.log('Updated!');
6 });
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans3.1.js
```

```
1 var http = require('http');
2 var fs = require('fs');
3 http.createServer(function (req, res) {
4   fs.readFile('ukinode.txt', function(err, data) {
5     res.writeHead(200, {'Content-Type': 'text/html'});
6     res.write(data);
7     res.end();
8   });
9 }).listen(8001);
```

for uki i am uki student.

```
ode ans3.2.js
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans3.3.js
Updated!
```

```
1 var fs = require('fs');
2
3 fs.appendFile('ukinode.txt', ' This is my uki .', function (err) {
4   if (err) throw err;
5   console.log('Updated!');
6 }); |
7
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans3.4.js
File Renamed!
```

```
1 var fs = require('fs');
2
3 fs.rename('ukinode.txt', 'ukinodejsexercisel.txt', function (err) {
4   if (err) throw err;
5   console.log('File Renamed!');
6 });
7
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans3.5.js
File deleted!
```

```

1  var fs = require('fs');
2
3  fs.unlink('ukinodejsexercisel.txt', function (err) {
4    if (err) throw err;
5    console.log('File deleted!');
6  });
7

```

4.

```
ukistu11@ukipc11:~/Documents/uki_exercises/node.js$ node demo_fileserver.js
```

file:///home/ukistu11/Documents/uki_exercises/node.js/head.html

you have got head

head.html	demo_fileserver.js	tail.html	demo_fileserver.js
<pre> 1 <!DOCTYPE html> 2 <html> 3 <body> 4 5 <p>you have got head 6 </p> 7 </body> 8 </html> 9 </pre>	<pre> 1 var http = require('http'); 2 var url = require('url'); 3 var fs = require('fs'); 4 5 http.createServer(function (req, res) { 6 var q = url.parse(req.url, true); 7 var filename = "." + q.pathname; 8 fs.readFile(filename, function(err, data) { 9 if (err) { 10 res.writeHead(404, {'Content-Type': 'text/html'}); 11 return res.end("404 Not Found"); 12 } 13 res.writeHead(200, {'Content-Type': 'text/html'}); 14 res.write(data); 15 return res.end(); 16 }); 17 }).listen(8000); 18 </pre>	<pre> 1 <!DOCTYPE html> 2 <html> 3 <body> 4 <p>you have got tail</p> 5 </body> 6 </html> 7 </pre>	<pre> 1 var http = require('http'); 2 var url = require('url'); 3 var fs = require('fs'); 4 5 http.createServer(function (req, res) { 6 var q = url.parse(req.url, true); 7 var filename = "." + q.pathname; 8 fs.readFile(filename, function(err, data) { 9 if (err) { 10 res.writeHead(404, {'Content-Type': 'text/html'}); 11 return res.end("404 Not Found"); 12 } 13 res.writeHead(200, {'Content-Type': 'text/html'}); 14 res.write(data); 15 return res.end(); 16 }); 17 }).listen(8000); 18 </pre>

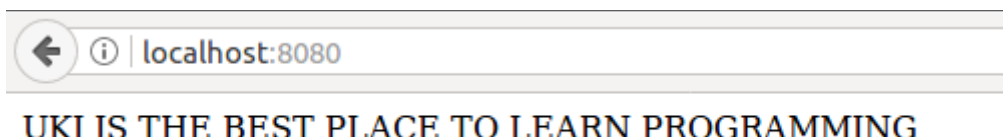
5. Install the package “upper-case” using NPM and create a Node.js file that will convert the output "Uki is the best place to learn programming !" into upper-case letters.

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ npm install upper-case
/home/ukistu11/Documents/uki_exercises/node2.js
└─ upper-case@1.1.3

npm WARN enoent ENOENT: no such file or directory, open '/home/ukistu11/Documents/uki_exercises/node2.js/package.json'
npm WARN node2.js No description
npm WARN node2.js No repository field.
npm WARN node2.js No README data
npm WARN node2.js No license field.
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$
```

```
ans5.js
1 var http = require('http');
2 var uc = require('upper-case');
3 http.createServer(function (req, res) {
4   res.writeHead(200, {'Content-Type': 'text/html'});
5   res.write(uc("Uki is the best place to learn programming"));
6   res.end();
7 }).listen(8080);
8
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js/node_modules/upper-case$ node
e ans5.js
```



localhost:8080

UKI IS THE BEST PLACE TO LEARN PROGRAMMING

6.

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ node ans6.js
```

```
I bark w 1 var events = require('events');
ukistu11 2 var EventEmitter = new events.EventEmitter();
3
4 //Create an event handler:
5 var myEventHandler = function () {
6   console.log('I bark when I see strangers!');
7 }
8
9 //Assign the event handler to an event:
10 EventEmitter.on('bark', myEventHandler);
11
12 //Fire the 'scream' event:
13 EventEmitter.emit('bark');
14
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ npm install formidable
/home/ukistu11/Documents/uki_exercises/node2.js
└─ formidable@1.1.1

npm WARN enoent ENOENT: no such file or directory, open '/home/ukistu11/Document
s/uki_exercises/node2.js/package.json'
npm WARN node2.js No description
npm WARN node2.js No repository field.
npm WARN node2.js No README data
npm WARN node2.js No license field.
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$
```

```
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$ npm install formidable
/home/ukistu11/Documents/uki_exercises/node2.js
└─ formidable@1.1.1

npm WARN enoent ENOENT: no such file or directory, open '/home/ukistu11/Document
s/uki_exercises/node2.js/package.json'
npm WARN node2.js No description
npm WARN node2.js No repository field.
npm WARN node2.js No README data
npm WARN node2.js No license field.
ukistu11@ukipc11:~/Documents/uki_exercises/node2.js$
```