

Node.Js Exercise 01

1. Create a custom module which returns the sum and average of any two numbers passed into it. Require the module and run the server by passing 123 and 321 so that the server prints out the sum and average.

```
exports.sum = function (a,b) {  
  return (a+b);  
};
```

```
exports.avg = function (a,b) {  
  return ((a+b)/2);  
};
```

```
var sum = require('./sum')  
var a=15, b=15;  
console.log("Sum of the number is : " + sum.sum(a,b));  
console.log("Average of number is : " + sum.avg(a,b));
```



Project

nodejs

- Q1.js
- sum.js

Q1.js

sum.js

```
1 var sum = require('./sum')
2 var a=15, b=15;
3 console.log("Sum of the number is : " + sum.sum(a,b));
4 console.log("Average of number is : " + sum.avg(a,b));
5 |
```



Project

Q1.js

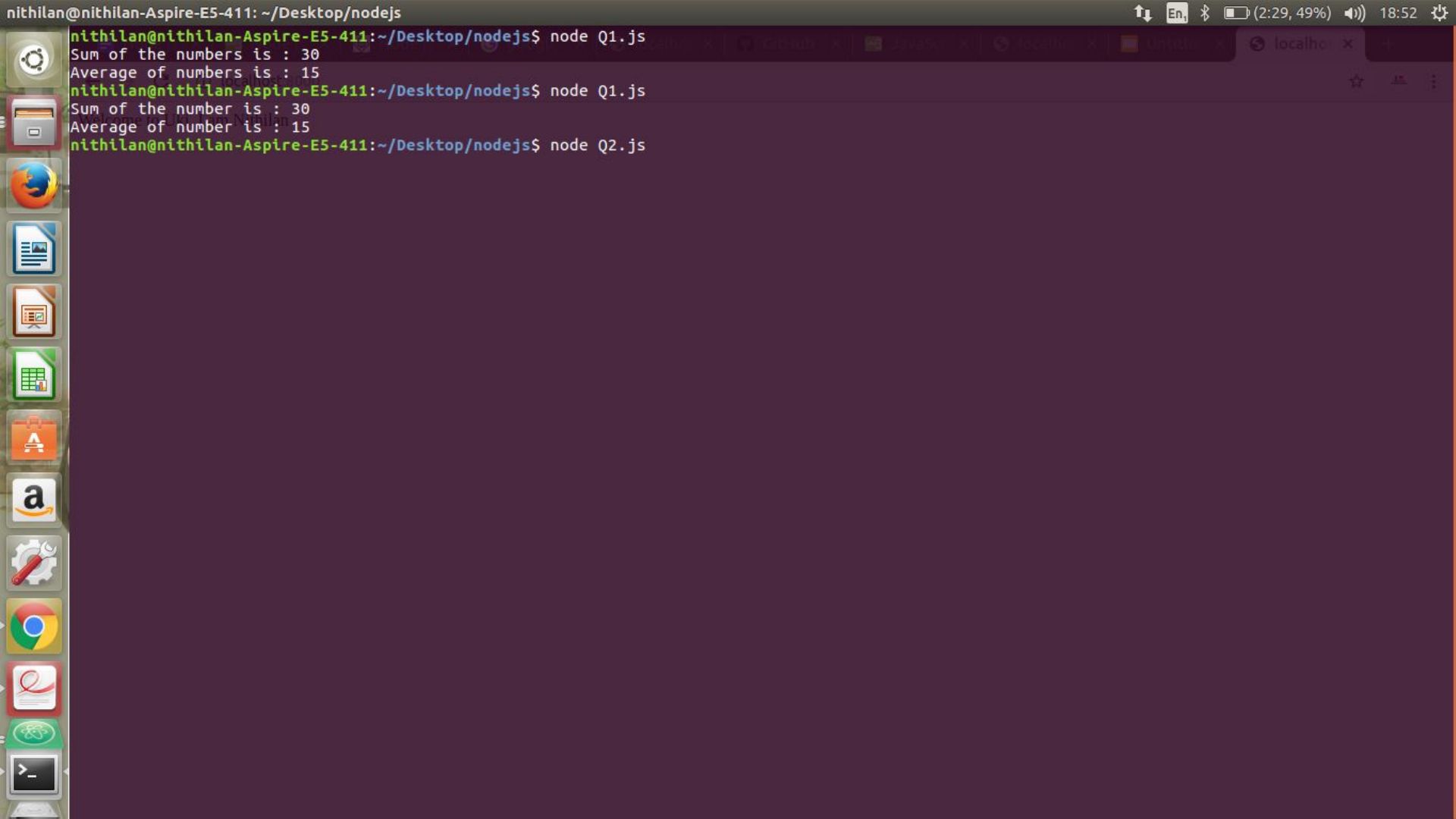
sum.js

nodejs

Q1.js

sum.js

```
1 exports.sum = function (a,b) {  
2   return (a+b);  
3 };  
4  
5 exports.avg = function (a,b) {  
6   return ((a+b)/2);  
7 };  
8
```



nithilan@nithilan-Aspire-E5-411: ~/Desktop/nodejs

nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs\$ node Q1.js

Sum of the numbers is : 30

Average of numbers is : 15

nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs\$ node Q1.js

Sum of the number is : 30

Average of number is : 15

nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs\$ node Q2.js

2 Create a simple http server and print “Welcome to Uki. I am **yourname**” when a request is sent to your server via the port 8000. (Note - Change different port numbers and check)

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

http.createServer(function (req, res) {

  res.writeHead(200, {'Content-Type': 'text/html'});

  res.end("Welcome to Uki. I am Nithilan");

}).listen(8000);
```



Project

nodejs

Q1.js

Q2.js

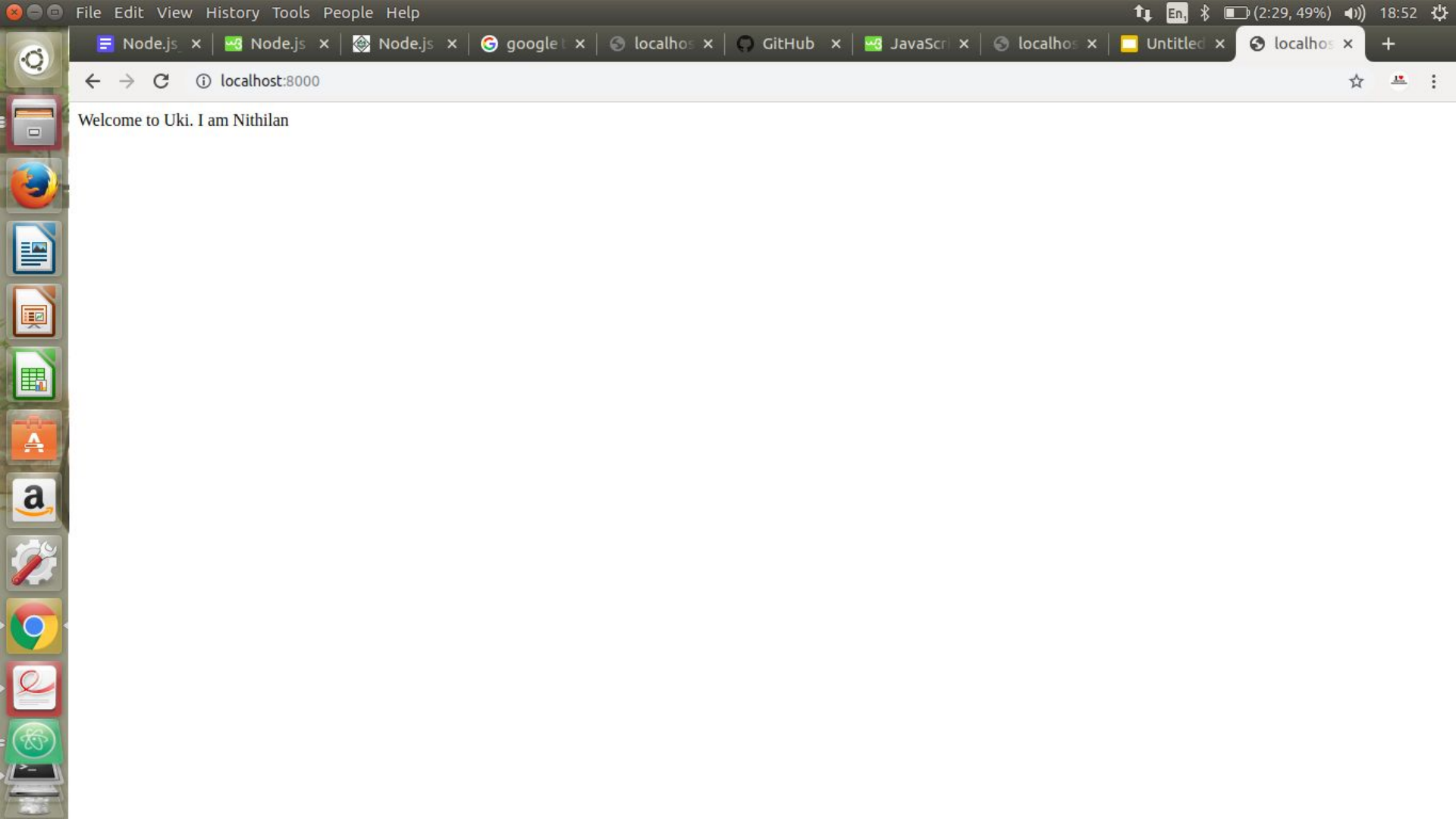
sum.js

Q1.js

sum.js

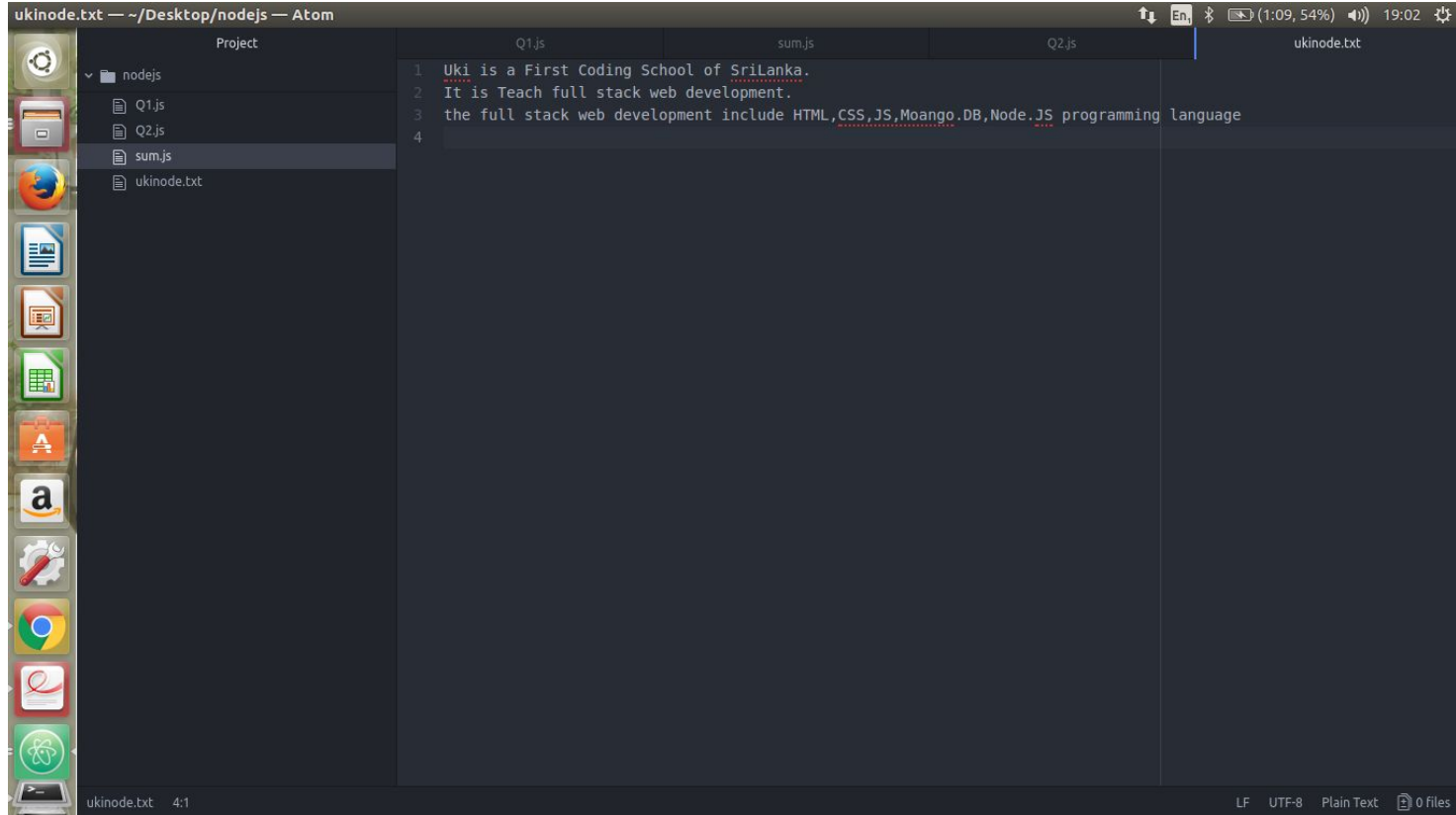
Q2.js

```
1 var http = require('http');
2
3 http.createServer(function (req, res) {
4   res.writeHead(200, {'Content-Type': 'text/html'});
5   res.end("Welcome to Uki. I am Nithilan");
6 }).listen(8000);
7
```

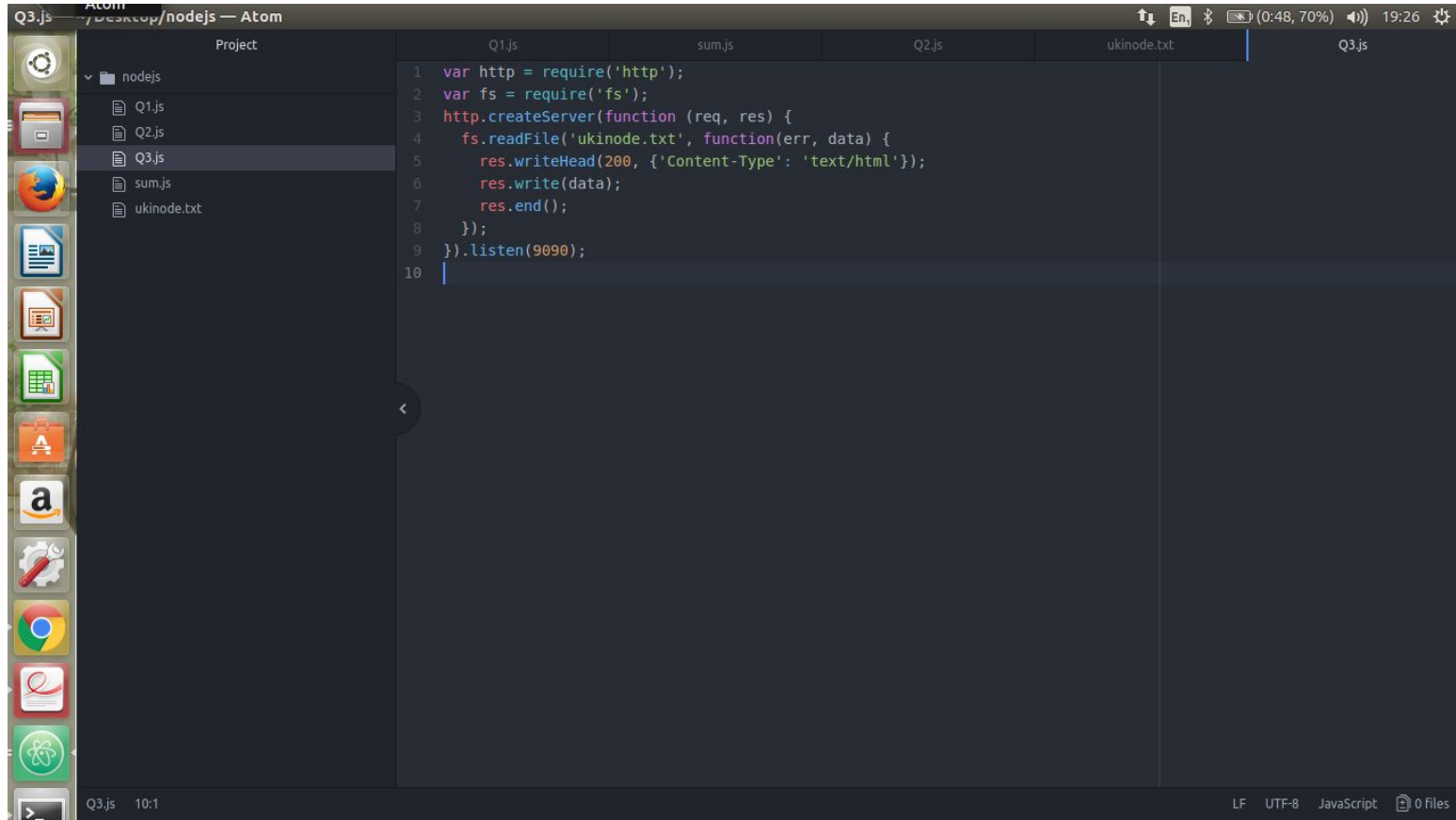


3 Using the file system module create a new file called ukinode.txt

3.1 Write a paragraph about Uki into that file



3.2 Serve that file to the client (Read File) over your server



The screenshot shows the Atom code editor with a project named 'nodejs'. The file explorer on the left lists the following files: Q1.js, Q2.js, Q3.js (selected), sum.js, and ukinode.txt. The main editor area displays the code for Q3.js, which is a Node.js script that reads a file named 'ukinode.txt' and serves its content over an HTTP server on port 9090.

```
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(9090);
10
```

The status bar at the bottom indicates the current file is Q3.js, the cursor is at line 10:1, the encoding is UTF-8, the language is JavaScript, and there are 0 files open.

Uki is a First Coding School of SriLanka. It is Teach full stack web development. the full stack web development include HTML,CSS,JS,Moango.DB,Node.JS programming language



```
at FSReqWrap.readFileAfterOpen [as oncomplete] (fs.js:367:13)
```

```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$ node Q3.js
```

```
^Z
```

```
[1]+  Stopped                  node Q3.js
```

```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$ node Q3-1 .js
```

```
module.js:478
```

```
  throw err;
```

```
  ^
```

```
  ^
```

```
Error: Cannot find module '/home/nithilan/Desktop/nodejs/Q3-1'
```

```
at Function.Module._resolveFilename (module.js:476:15)
```

```
at Function.Module._load (module.js:424:25)
```

```
at Module.runMain (module.js:611:10)
```

```
at run (bootstrap_node.js:394:7)
```

```
at startup (bootstrap_node.js:160:9)
```

```
at bootstrap_node.js:507:3
```

```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$ node Q3-1 .js
```

```
module.js:478
```

```
  throw err;
```

```
  ^
```

```
  ^
```

```
Error: Cannot find module '/home/nithilan/Desktop/nodejs/Q3-1'
```

```
at Function.Module._resolveFilename (module.js:476:15)
```

```
at Function.Module._load (module.js:424:25)
```

```
at Module.runMain (module.js:611:10)
```

```
at run (bootstrap_node.js:394:7)
```

```
at startup (bootstrap_node.js:160:9)
```

```
at bootstrap_node.js:507:3
```

```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$ node Q3-1 .js
```

```
module.js:478
```

```
  throw err;
```

```
  ^
```

```
  ^
```

```
Error: Cannot find module '/home/nithilan/Desktop/nodejs/Q3-1'
```

```
at Function.Module._resolveFilename (module.js:476:15)
```

```
at Function.Module._load (module.js:424:25)
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```
at Module.runMain (module.js:611:10)
```

```
at run (bootstrap_node.js:394:7)
```

```
at startup (bootstrap_node.js:160:9)
```

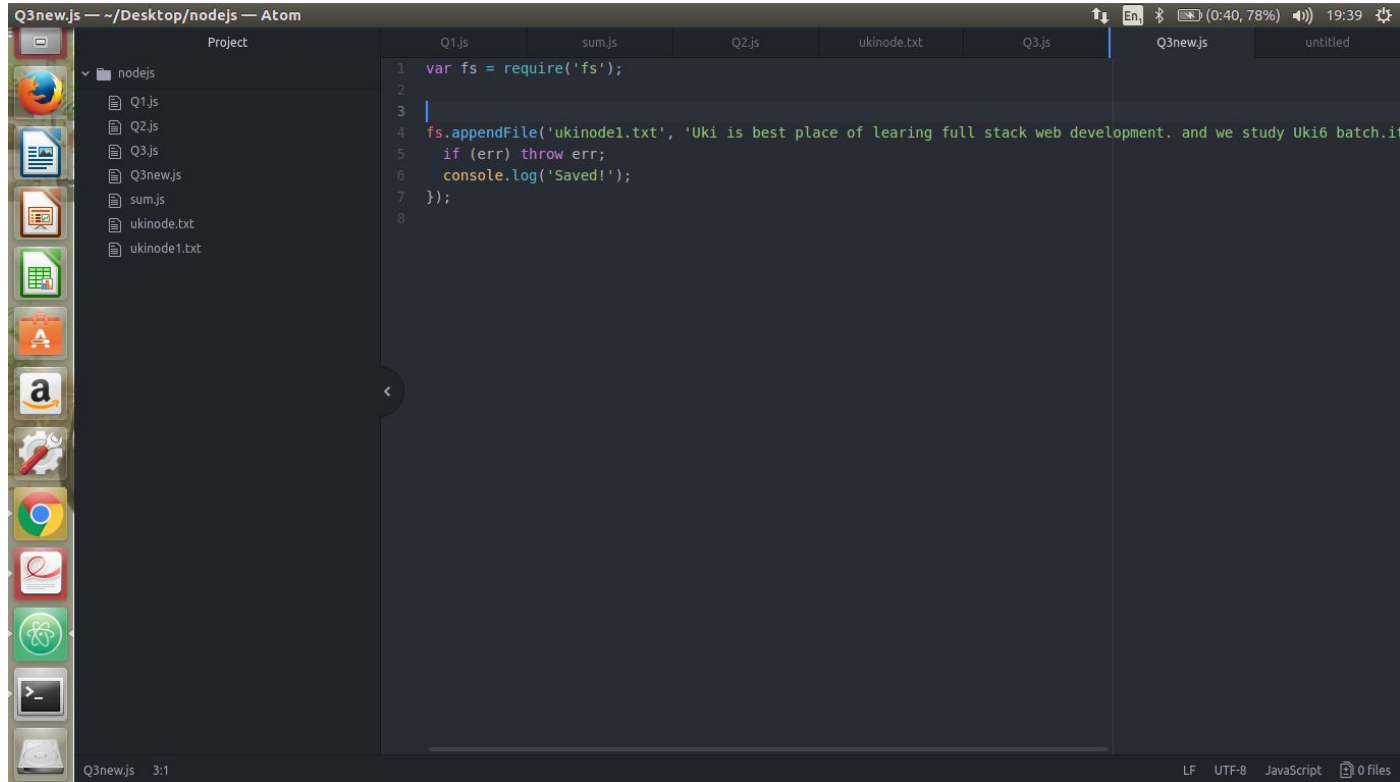
```
at bootstrap_node.js:507:3
```

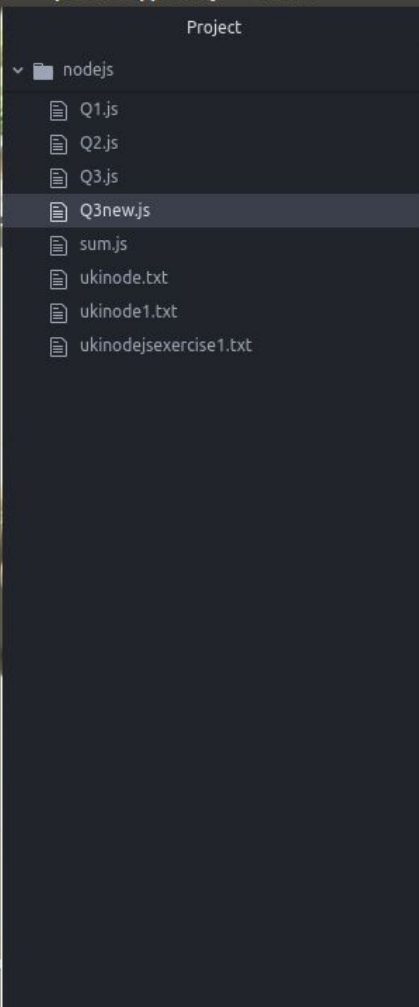
```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$ node Q3new.js
```

```
Saved!
```

```
nithilan@nithilan-Aspire-E5-411:~/Desktop/nodejs$
```

3.3 Append another paragraph about Uki and now serve the new file





```
Q1.js    sum.js    Q2.js    ukinode.txt    Q3.js    Q3new.js    ukinodejsexercise1..    untitled

1  var fs = require('fs');
2
3
4  fs.appendFile('ukinodejsexercise1.txt', 'Uki is best place of learning full stack web development. and we study UK
5    if (err) throw err;
6    console.log('Saved!');
7  });
8
```



Project

Q1.js

sum.js

Q2.js

ukinode.txt

Q3.js

Q3new.js

ukinode1.txt

untitled

nodejs

Q1.js

Q2.js

Q3.js

Q3new.js

sum.js

ukinode.txt

ukinode1.txt

ukinodejsexercise1.txt

```
1 Uki is best place of learing full stack web development. and we study Uki6 batch.it help to our bright future!
```



Project

Q1.js

sum.js

Q2.js

ukinode.txt

Q3.js

Q3new.js

ukinodejsexercise1..

untitled

nodejs

Q1.js

Q2.js

Q3.js

Q3new.js

sum.js

ukinode.txt

ukinode1.txt

ukinodejsexercise1.txt

```
1 Uki is best place of learing full stack web development. and we study Uki6 batch.it help to our bright future!
```


3.5 Delete the file you created

