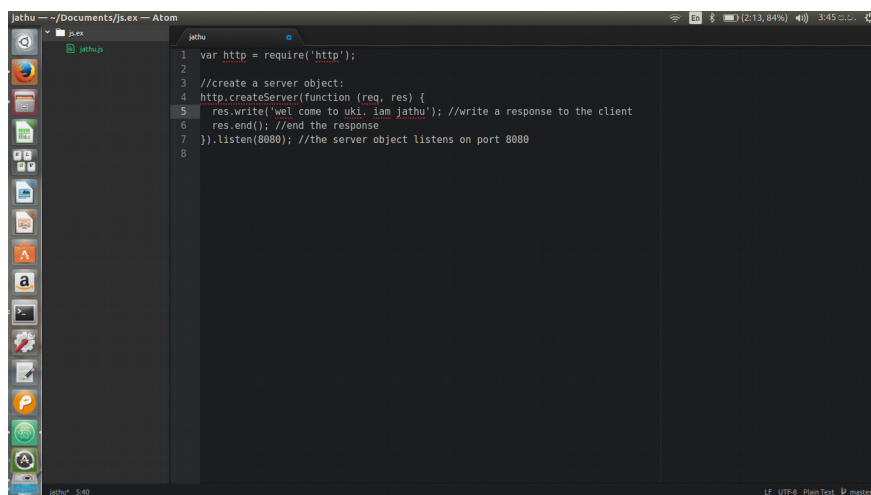
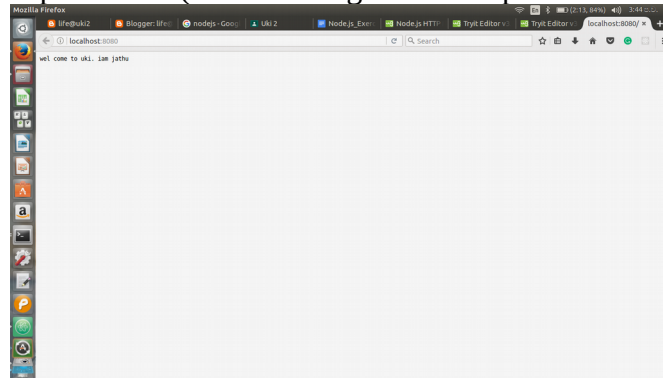


1. Create a custom module which returns the sum and average of any two numbers passed into it. Require the module and run the server by passing 123 and 321 so that the server prints out the sum and average

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)

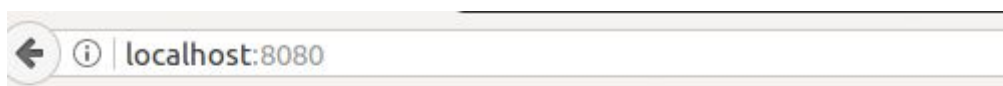


Using the file system module create a new file called ukinode.txt

3.1 Write a paragraph about Uki into that file

```
1 var fs = require('fs');
2
3 fs.appendFile('Ukinode.txt', 'Uki is a coding School.', function (err) {
4   if (err) throw err;
5   console.log('Saved!');
6 });
7
```

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



Uki is a coding School.

```
Welcome ...  ex-q-3.2.js  ex-q-8.js  ex-q-3.1.js  ex-q-3.5.js  head.html  tail.html  open.js  main3.js  apend.js  update.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(8080);
10
```

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

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

3.4 Rename the file as ukinodejsexercise1.txt

3.5 Delete the file you created

```
1  var fs = require('fs');
2
3  fs.appendFile('Ukinode.txt', ' This is a full scholarship based course', function (err) {
4    if (err) throw err;
5    console.log('Updated!');
6  });
7
```



```
1  var fs = require('fs');
2
3  fs.rename('Ukinode.txt', 'Ukinodejsexercise1.txt', function (err) {
4    if (err) throw err;
5    console.log('File Renamed!');
6  });
7
```

```

1  var fs = require('fs');
2
3  fs.unlink('Ukinodejsexercise1.txt', function (err) {
4    if (err) throw err;
5    console.log('File deleted!');
6  });
7

```

4. Create two html files called head.html which is a web page which says 'you have got head' and tail.html which is a web page which says 'you have got tail' and save them in the same folder as your node.js files. Create a Node.js file that opens the requested file and returns the content to the client. If anything goes wrong, throw a 404 error. If you have followed the correct steps you should see two different results when opening these two addresses:

http://localhost:8080/head.html -> You have got head

http://localhost:8080/tail.html -> You have got tail

```

var http = require('http');
var url = require('url');
var fs = require('fs');

http.createServer(function (req, res) {
  var q = url.parse(req.url, true);
  var filename = "." + q.pathname;
  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'});
    res.write(data);
    return res.end();
  });
}).listen(8080);

```

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.

```
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
```



6. Create an event handler function that will say “I bark when I see strangers !” when a “bark” event is fired.

```
1 var events = require('events');
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 eventhandler to an event:
10 EventEmitter.on('bark', myEventHandler);
11
12 //Fire the 'scream' event:
13 EventEmitter.emit('bark');
14
```