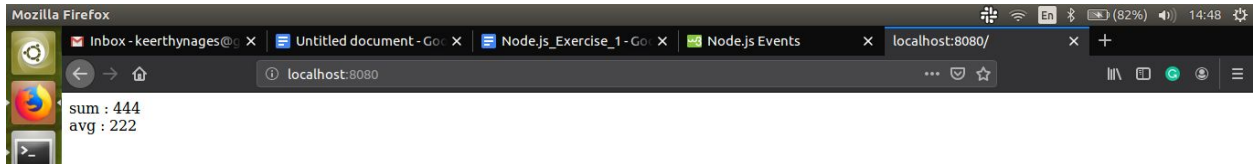


Node.js Exercise 1

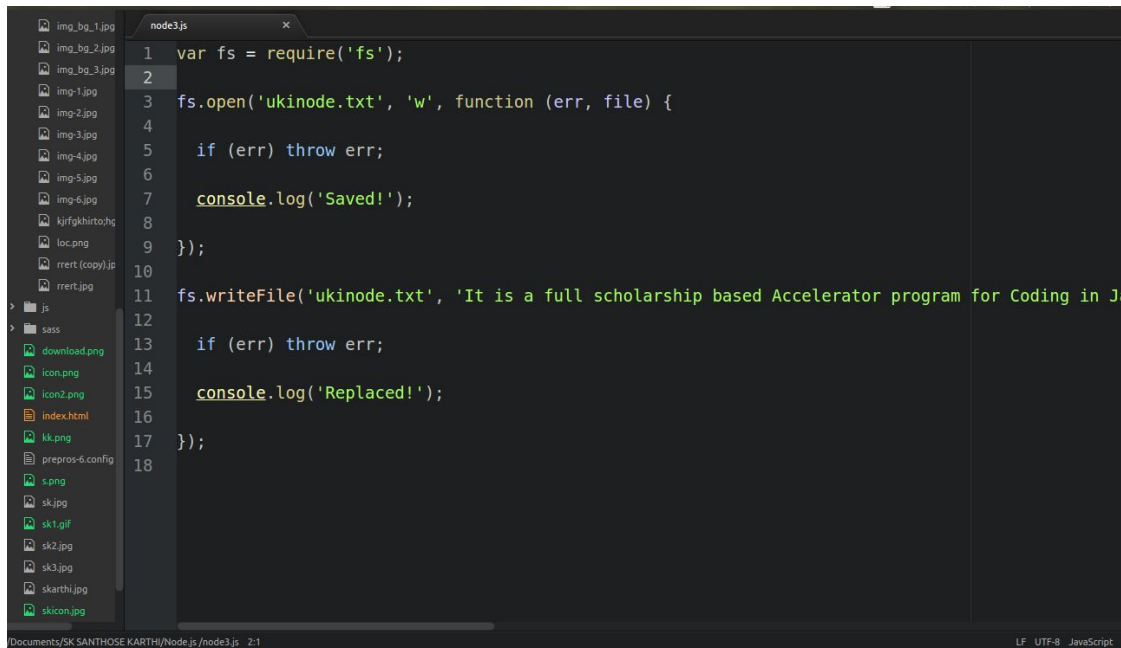
1. Create a custom module which returns the sum and average of any two numbers passed into it. Require the module and run the server by passing 123 and 321 so that the server prints out the sum and average.



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)



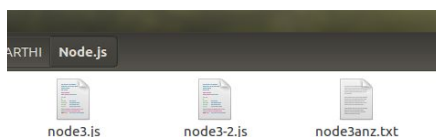
3. Using the file system module create a new file called ukinode.txt
3.1 Write a paragraph about Uki into that file



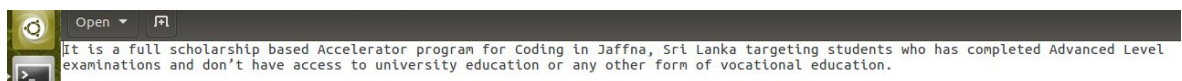
```
1 var fs = require('fs');
2
3 fs.open('ukinode.txt', 'w', function (err, file) {
4
5     if (err) throw err;
6
7     console.log('Saved!');
8
9 });
10
11 fs.writeFile('ukinode.txt', 'It is a full scholarship based Accelerator program for Coding in J',
12
13     if (err) throw err;
14
15     console.log('Replaced!');
16
17 });
18
```



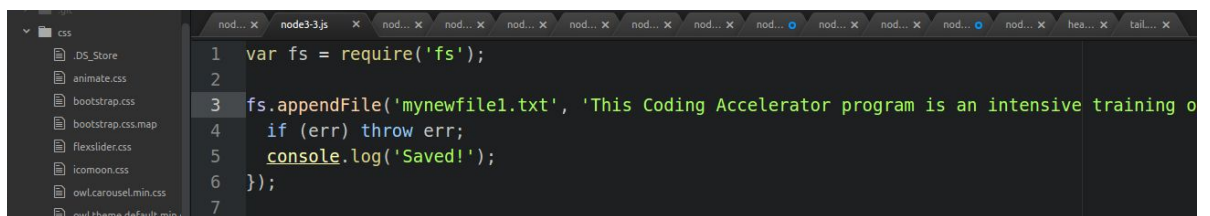
```
ukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ nodemon node3.js
[nodemon] 1.18.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node node3.js`
Saved!
Replaced!
[nodemon] clean exit - waiting for changes before restart
```



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

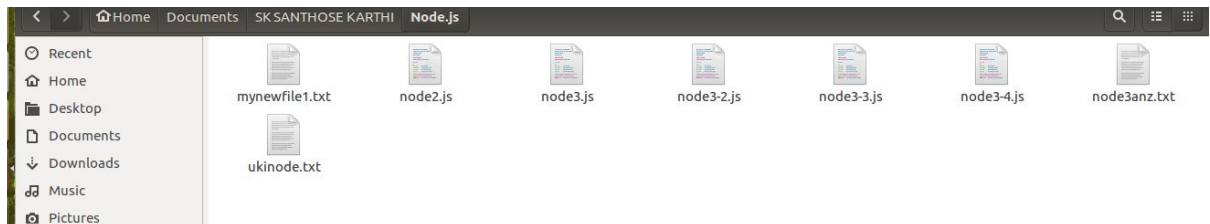


```
1 var fs = require('fs');
2
3 fs.appendFile('mynewfile1.txt', 'This Coding Accelerator program is an intensive training o
4     if (err) throw err;
5     console.log('Saved!');
6 });
7
```

```

^Cukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ nodemon node3
[nodemon] 1.18.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node node3-3.js`
Saved!
[nodemon] clean exit - waiting for changes before restart

```

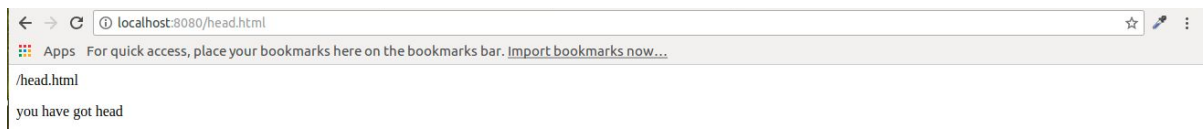


3.4 Rename the file as ukinodejsexercise1.txt

```

^Cukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ nodemon node3-4.js
[nodemon] 1.18.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node node3-4.js`
File Renamed!
[nodemon] clean exit - waiting for changes before restart

```



3.5 Delete the file you created

```

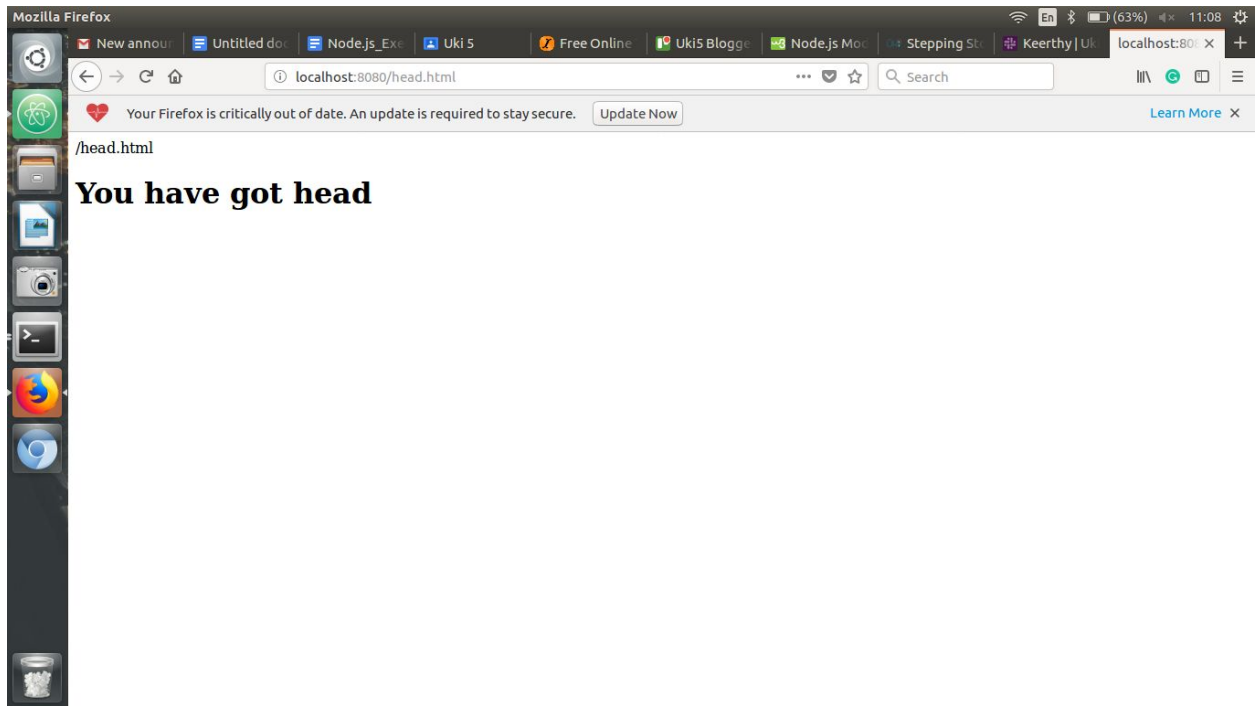
ukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ nodemon node3.5.js
[nodemon] 1.18.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node node3.5.js`
File deleted!
[nodemon] clean exit - waiting for changes before restart

```

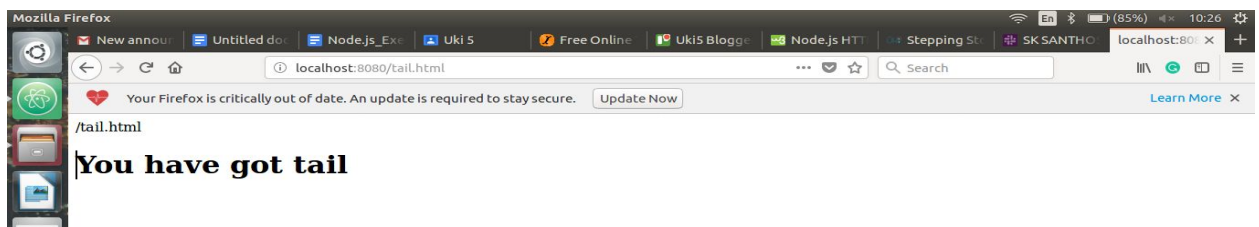
4. Create two html files called head.html which is a web page which says 'you have got head' and tail.html which is a web page which says 'you have got tail' and save them in the same folder as your node.js files. Create a Node.js file that opens the requested file and returns the content to the client. 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



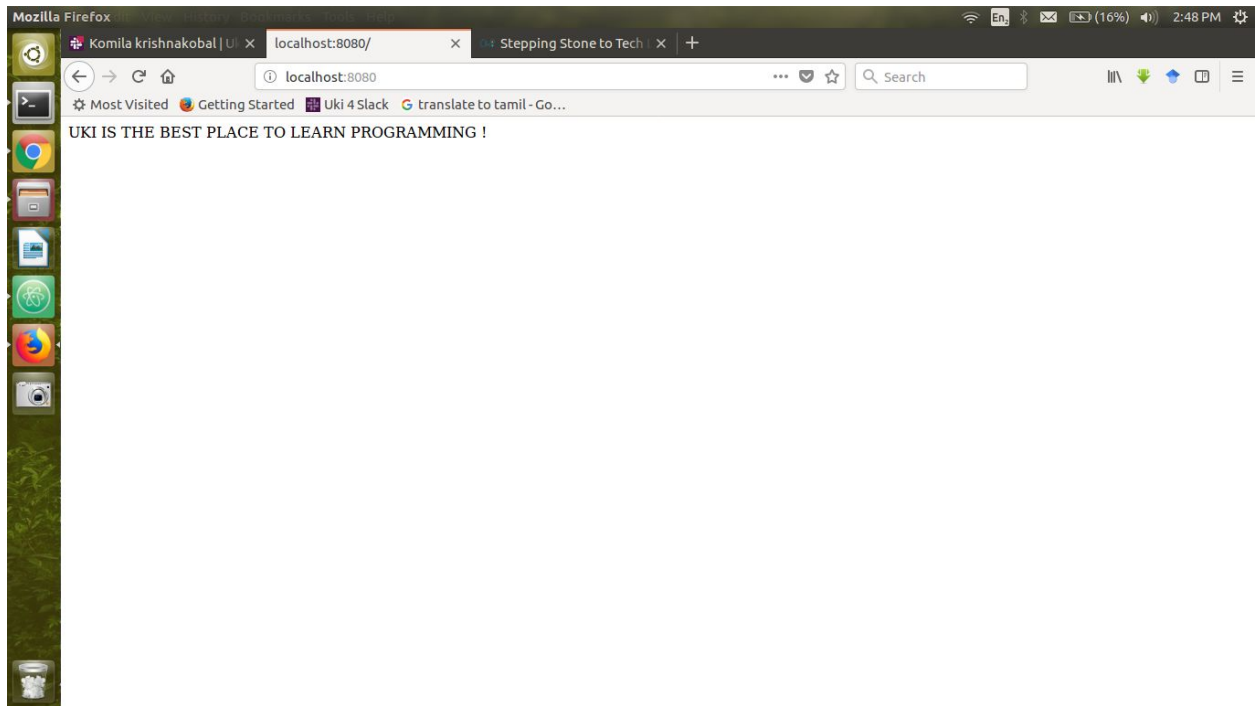
`http://localhost:8080/tail.html` -> You have got tail



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.

```
^Cukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ sudo npm install upper-case
[sudo] password for ukistu04:
/home/ukistu04/Documents/SK SANTHOSE KARTHI/Node.js
└─ upper-case@1.1.3

npm WARN enoent ENOENT: no such file or directory, open '/home/ukistu04/Documents/SK SANTHOSE KARTHI/Node.js /package.json'
npm WARN Node.js No description
npm WARN Node.js No repository field.
npm WARN Node.js No README data
npm WARN Node.js No license field.
```

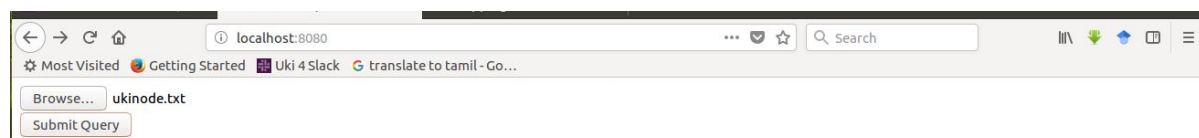


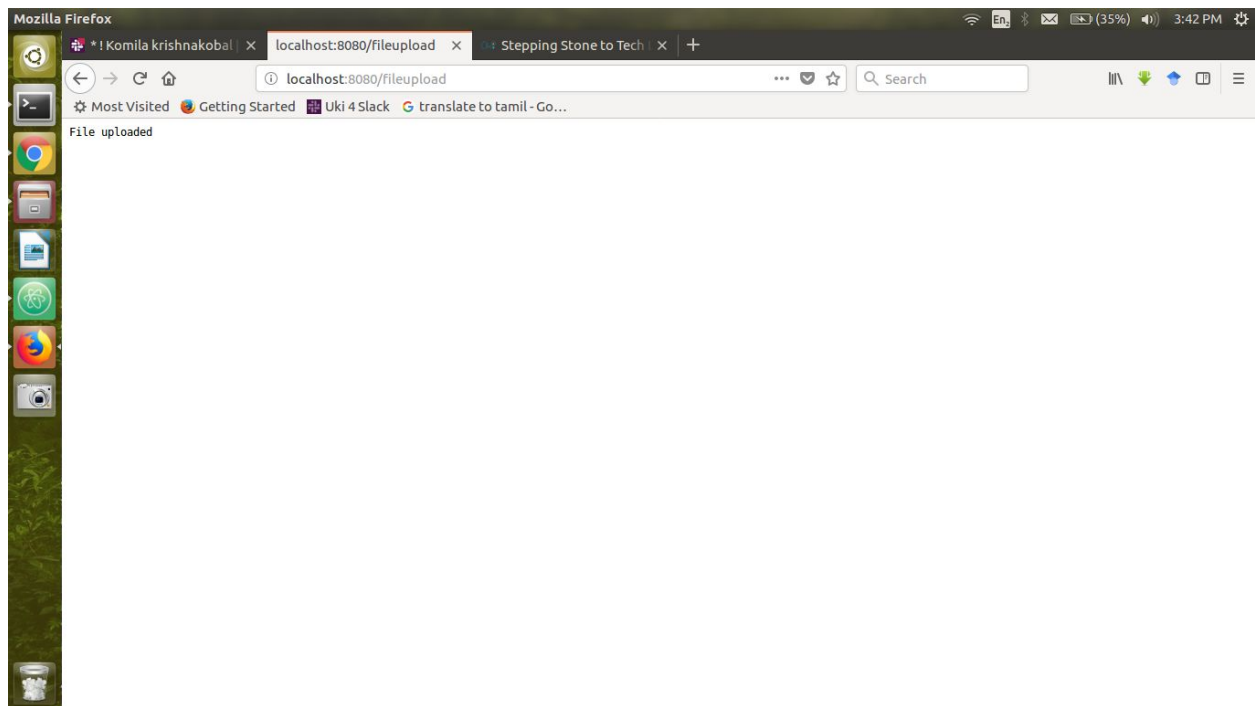
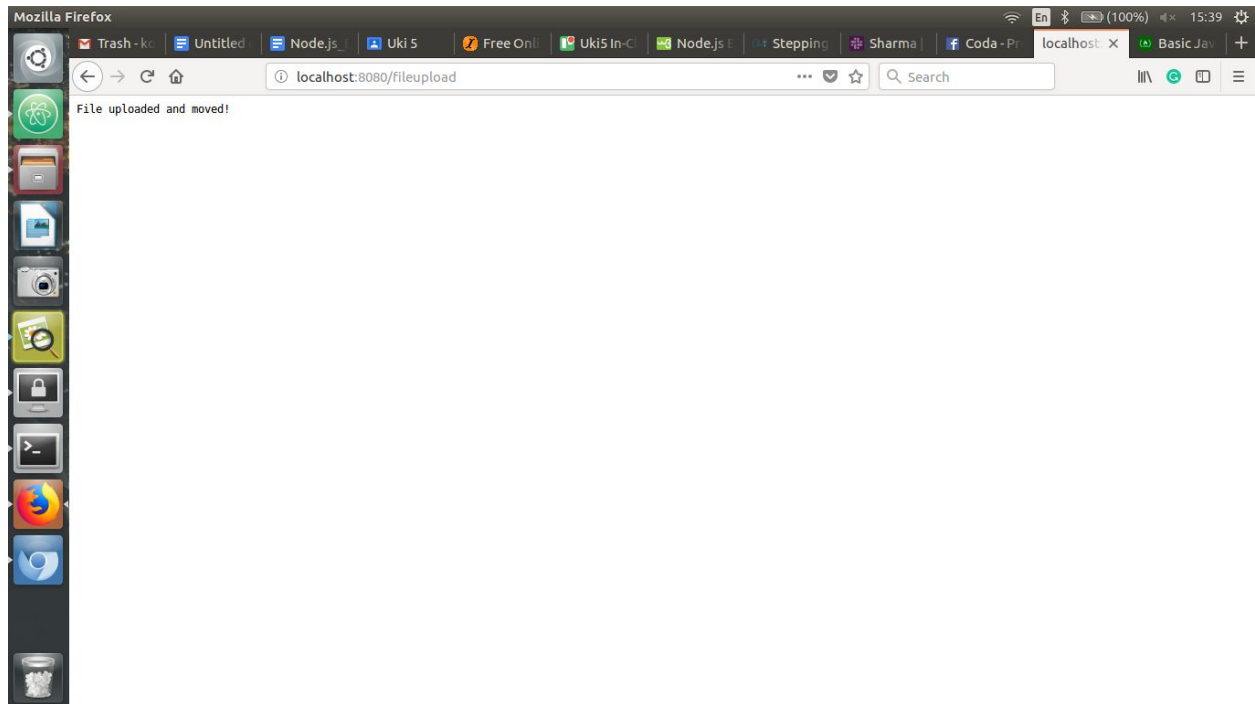
6. Create an event handler function that will say "I bark when I see strangers !" when a "bark" event is fired.

```
^Cukistu04@ukipc04:~/Documents/SK SANTHOSE KARTHI/Node.js $ nodemon node6.js
[nodemon] 1.18.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node node6.js`
I bark when I see strangers !
[nodemon] clean exit - waiting for changes before restart
```

7. Install "formidable" module using npm and make a web page in Node.js that lets the user upload files to your computer.

7.1 Save that uploaded file into your Documents directory.





8. Using the Nodemailer module create a server and send a mail to info@uki.life with the subject : "Testing my nodemailer module" , text: "This is easy !"

8.1 Now instead of text send a basic html formatted mail.


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

var transporter = nodemailer.createTransport({
  service: 'gmail',
  auth: {
    user: 'santhosekarthi89@gmail.com',
    pass: 'bbnnc34f5'
  }
});

var mailOptions = {
  from: 'santhosekarthi89@gmail.com',
  to: 'info@uki.life',
  subject: 'Testing my nodemailer module',
  text: 'This is easy !'
  html: '<h1>Welcome</h1><p>That was easy!</p>'
};

transporter.sendMail(mailOptions, function(error, info){
  if (error) {
    console.log(error);
  } else {
    console.log('Email sent: ' + info.response);
  }
});
```