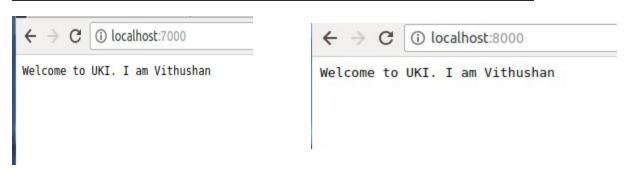
1. Create a custom module which returns the sum and average of any two numbers passed into it. Require the module and run the server by passing 123 and 321 so that the server prints out the sum and average.

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)

```
demo_http.js

var http = require('http');

http.createServer(function (req,res) {
    res.write('Welcome to UKI. I am Vithushan');
    res.end();
}).listen(8000);
```



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

```
demo_http.js three.js

var fs = require('fs');

fs.appendFile('ukinode.txt','', function (err) {
   if (err) throw err;
})
```

```
wkistu03@ukipc03:~/Documents/uki3/backend/node.js/exersukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node uki.js

cukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node demo_http.js

cukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node demo_http.js

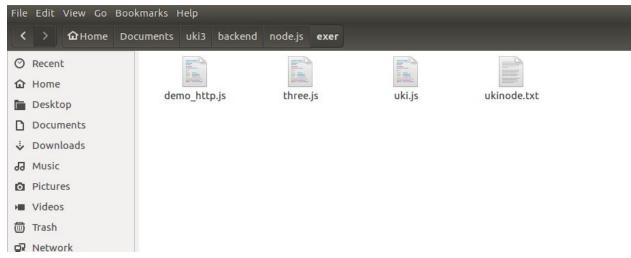
[[A

cukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node demo_http.js

cukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node demo_http.js

cukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$ node three.js

ukistu03@ukipc03:~/Documents/uki3/backend/node.js/exer$
```



3.1 Write a paragraph about Uki into that file

```
demo_http.js

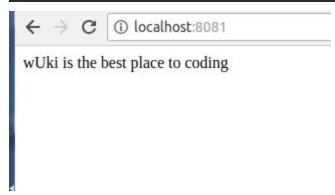
var fs = require('fs');

fs.appendFile('ukinode.txt','Uki is the best place to coding', function (err) {
   if (err) throw err;
}

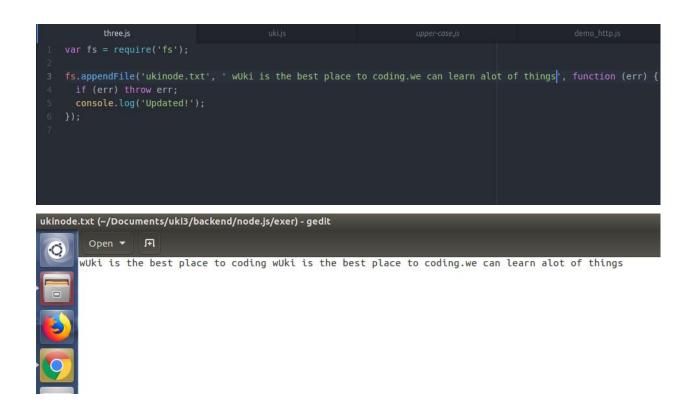
}
```



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



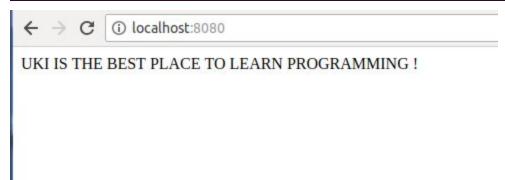
5. Install the package "upper-case" using NPM and create a Node.js file that will convert the output "Uki is the best place to learn programming!" into upper-case letters.

```
upper-case.js

var http = require('http');

var uc = require('upper-case');

http.createServer(function (req, res) {
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write(uc("Uki is the best place to learn programming !"));
    res.end();
}).listen(8080);
```



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

- 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.

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

http.createServer(function (req, res) {
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write('<form action="fileupload" method="post" enctype="multipart/form-data">');
    res.write('<input type="file" name="filetoupload"><br>');
    res.write('<input type="submit">');
    res.write('</form>');
    return res.end();
} listen(8080);
```

```
uploadingFiles2.js

var http = require('http');

var formidable = require('formidable');

http.createServer(function (req, res) {
    if (req.url == '/fileupload') {
        var form = new formidable.IncomingForm();
        form.parse(req, function (err, fields, files) {
            res.write('File uploaded');
            res.end();
        });
    } else {
        res.writeHead(200, {'Content-Type': 'text/html'});
        res.write('<form action="fileupload" method="post" enctype="multipart/form-data">');
        res.write('<input type="file" name="filetoupload"><br/>res.write('<input type="submit">');
        res.write('</form>');
        res.write('</form>');
        return res.end();
    }
} }).listen(8080);
```

```
uploadingFiles3.js
var http = require('http');
   var formidable = require('formidable');
   http.createServer(function (req, res) {
     if (req.url == '/fileupload') {
       var form = new formidable.IncomingForm();
       form.parse(req, function (err, fields, files) {
         var oldpath = files.filetoupload.path;
         var newpath = '/home/ukistu03/Desktop' + files.filetoupload.name;
         fs.rename(oldpath, newpath, function (err) {
           res.write('File uploaded and moved!');
           res.end();
       res.writeHead(200, {'Content-Type': 'text/html'});
       res.write('<form action="fileupload" method="post" enctype="multipart/form-data">');
       res.write('<input type="file" name="filetoupload"><br>');
       res.write('<input type="submit">');
       res.write('</form>');
       return res.end();
   }).listen(8080);
```