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)

```
at bootstrap_node.js:505:5
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node myfirst.js
```

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

//create a server object:
http.createServer(function (req, res) {
  res.write('Welcome to uki.Iam janusha'); //write a response to the client
  res.end(); //end the response
}).listen(8000); //the server object listens on port 8080
```

Search your computer

localhost:8000

Welcome to uki.Iam janusha

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

```javascript
var fs = require('fs');

fs.appendFile('ukinode.txt', 'uki is a coaching centre', function (err) {
 if (err) throw err;
 console.log('Saved!');
});
```
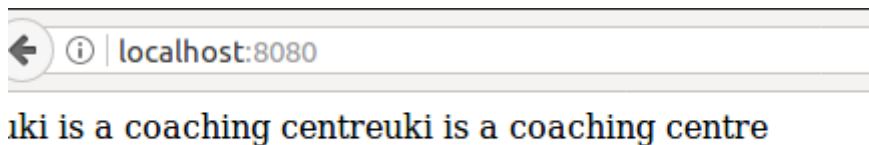
```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node myfirst.js
Saved!
```

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

```
var http = require('http');
var fs = require('fs');
http.createServer(function (req, res) {
  fs.readFile('ukinode.txt', function(err, data) {
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write(data);
    res.end();
  });
}).listen(8080);
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 21.js
```

localhost:8080

ıki is a coaching centreuki is a coaching centre

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

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

fs.appendFile('ukinode.txt', ' fifteen students are studying at uki', function (err) {
  if (err) throw err;
  console.log('Updated!');
});
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 1.js
Updated!
```

3.4 Rename the file as ukinodejsexercise1.txt

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

fs.rename('ukinode.txt', 'ukinodejsexercise1.txt', function (err) {
  if (err) throw err;
  console.log('File Renamed!');
});
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 2.js
File Renamed!
```

3.5 Delete the file you created

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

fs.unlink('ukinodejsexercise1.txt', function (err) {
  if (err) throw err;
  console.log('File deleted!');
});
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 3.js
File deleted!
```

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
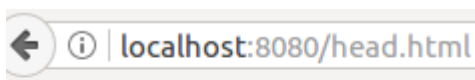opening these two addresses:
http://localhost:8080/head.html - > You have got head
http://localhost:8080/tail.html -> You have got tail

```
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);
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 4.js
```

localhost:8080/head.html

you have got a head

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.

```javascript
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);
```

```
kistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 5.js
```

```
←  ⓘ localhost:8080
```

UKI IS THE BEST PLACE TO LEARN PROGRAMMING

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

```javascript
var events = require('events');
var eventEmitter = new events.EventEmitter();

//Create an event handler:
var myEventHandler = function () {
  console.log('I bark when i see strangers!');
}

//Assign the event handler to an event:
eventEmitter.on('bark', myEventHandler);

//Fire the 'scream' event:
eventEmitter.emit('bark');
```

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 6.js
I bark when i see strangers!
```

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.

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

var transporter = nodemailer.createTransport({
  service: 'gmail',
  auth: {
    user: 'janusha997@gmail.com',
    pass: 'janusha1997'
  }
});

var mailOptions = {
  from: 'janusha1997@gmail.com',
  to: 'info@uki.life',
  subject: 'testing my nodemailer module',
  text: 'This is easy!'
};

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

```
ukistu15@ukipc15:~/Documents/ukiexercises/nodejs$ node 7.js
{ Error: connect ENETUNREACH 2404:6800:4003:c03::6c:465
    at Object.exports._errnoException (util.js:1018:11)
    at exports._exceptionWithHostPort (util.js:1041:20)
    at TCPConnectWrap.afterConnect [as oncomplete] (net.js:1086:14)
  code: 'ECONNECTION',
  errno: 'ENETUNREACH',
  syscall: 'connect',
  address: '2404:6800:4003:c03::6c',
  port: 465,
  command: 'CONN' }
```