

## Node.js Exercise 1

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)

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

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-q-1
```



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.appendFile('Ukinode.txt', '
4 This is a joint initiative by Yarl IT Hub and SERVE Foundation. Yarl IT Hub has been functioning for the last five years.
5 if (err) throw err;
6 console.log('Saved!');
7 });
8
```

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

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-q-3.1
Saved!
```



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

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

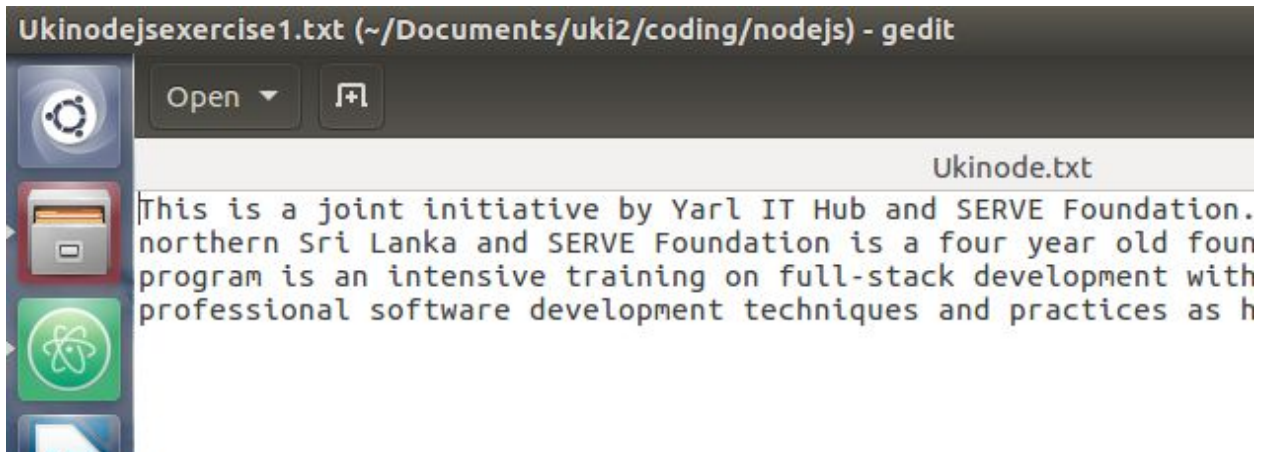
```
SAVED:
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-q-3.3
Updated!
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$
```



### 3.4 Rename the file as ukinodejsexercise1.txt

```
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
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-3.4
File Renamed!
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$
```



### 3.5 Delete the file you created

```
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
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-q-3.5
File deleted!
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$
```

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);
```

← ⓘ | localhost:8080/head.html

# You have got head

← ⓘ | 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.

```
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
```





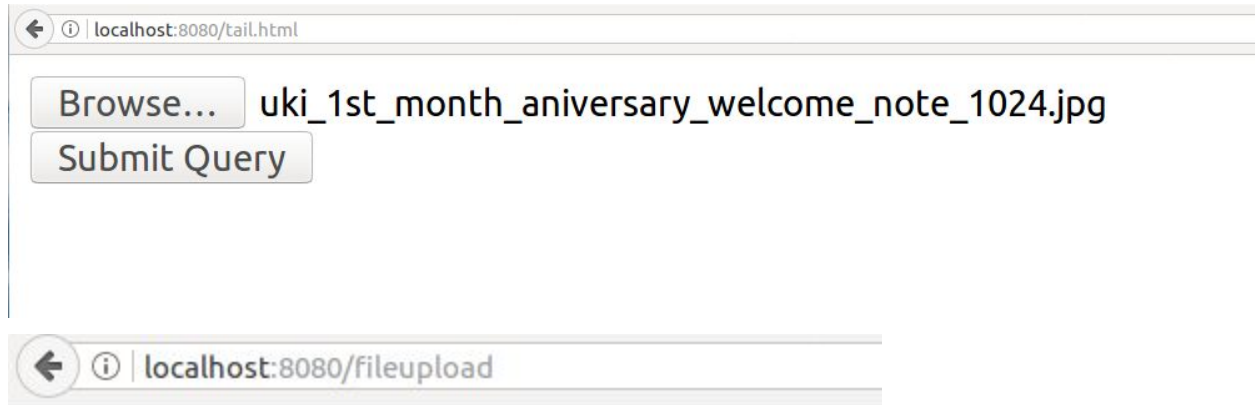
6. Create an event handler function that will say "I bark when I see strangers !" when a "bark" event is fired.

```
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
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$ node ex-q-6
I bark when I see strangers !
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs$
```

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.



```
1  var nodemailer = require('nodemailer');
2
3  var transporter = nodemailer.createTransport({
4    service: 'gmail',
5    auth: {
6      user: 'jegatheesansriram@gmail.com',
7      pass: 'srisriram'
8    }
9  });
10 var mailOptions = {
11   from: 'jegatheesansriram@gmail.com',
12   to: 'info@uki.life',
13   subject: 'Testing my nodemailer module',
14   text: 'This is easy!'
15 };
16
17 transporter.sendMail(mailOptions, function(error, info){
18   if (error) {
19     console.log(error);
20   } else {
21     console.log('Email sent: ' + info.response);
22   }
23 });
24
```