

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)

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

http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.write("Welcome to Uki, I'm Parathan");
  res.end();
}).listen(8000);
```

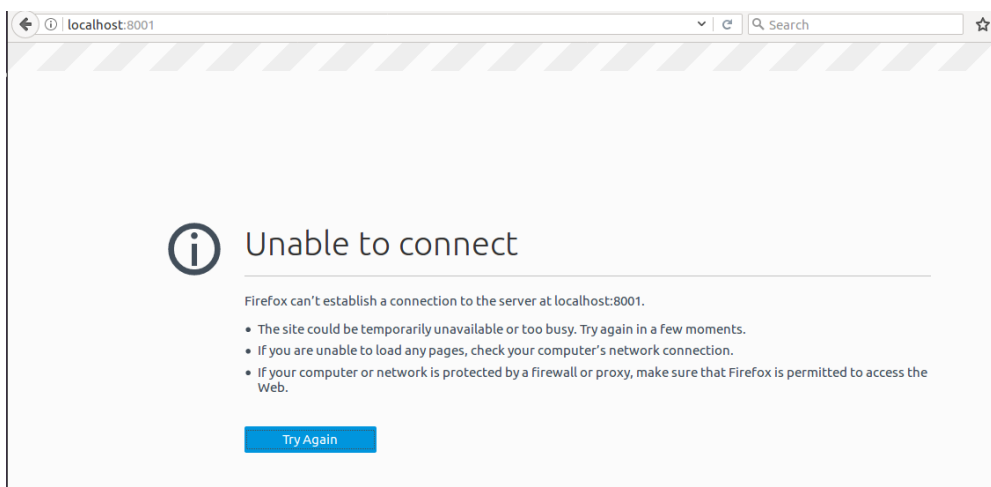
Run the above file in Terminal

```
parathan@parathan-hp-notebook:~/Documents/nodejs$ node node.js
```

Output:



When run in localhost:8001



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

3.1 Write a paragraph about Uki into that file

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

//create a file named mynewfile1.txt:
fs.appendFile('ukinode.txt', 'Uki is a Coding school in Jaffna. A full stack webdevelopment, English & Personal Coaching are teach their.',
function (err) {
  if (err) throw err;
  console.log('Saved!');
});
```

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

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

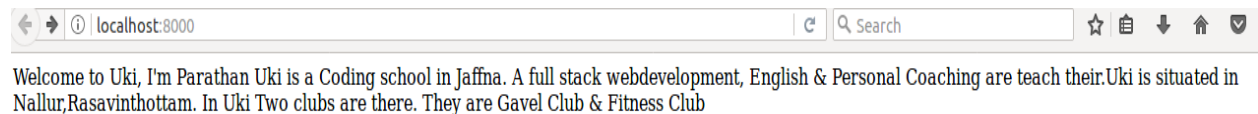
http.createServer(function (req, res) {
  fs.readFile('ukinode.txt', function(err, data) {
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write("Welcome to Uki, I'm Parathan ");
    res.write(data);
    res.end();
  });
}).listen(8000);
```

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

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

//append content at the end of the file:
fs.appendFile('ukinode.txt', 'Uki is situated in Nallur,Rasavinthottam. In Uki Two clubs are there. They are Gavel Club & Fitness Club', function
(err) {
  if (err) throw err;
  console.log('Updated!');
});
```

Final Output:

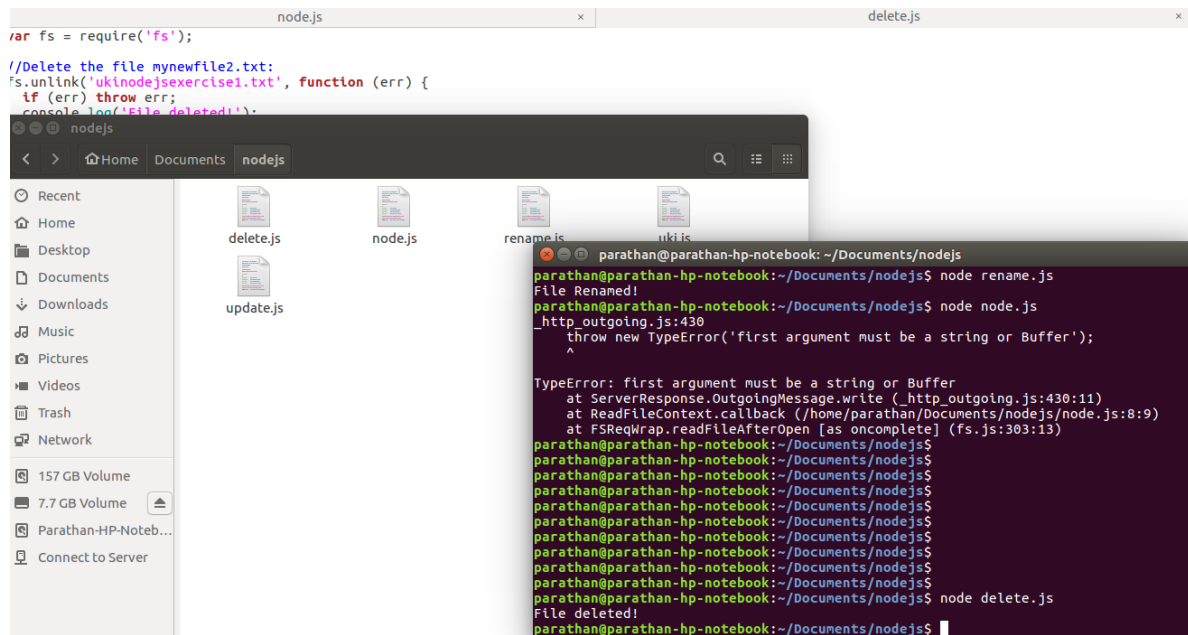


3.4 Rename the file as ukinodejsexercise1.txt

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

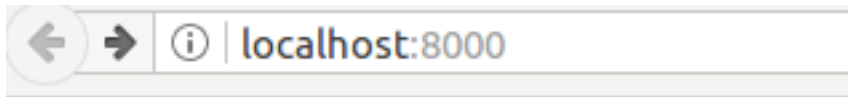
//Rename the file "mynewfile1.txt" into "myrenamedfile.txt":
fs.rename('ukinode.txt', 'ukinodejsexercise1.txt', function (err) {
  if (err) throw err;
  console.log('File Renamed!');
});
```

3.5 Delete the file you created



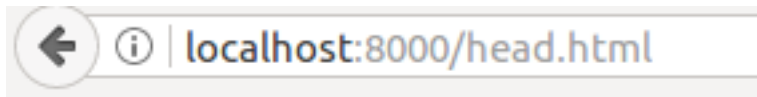
4. Create two html files called head.html which is a web page which says 'you have got head ' and tail.html which is a web page which says 'you have got tail' and save them in the same folder as your node.js files. Create a Node.js file that opens the requested file and returns the content to the client.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



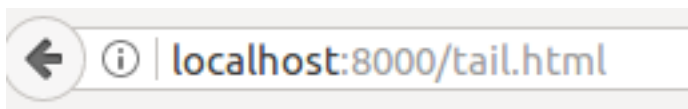
404 Not Found

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



you have got head

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



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.

```
parathan@parathan-hp-notebook:~/Documents/nodejs$ npm install upper-case --save
```

```
var http = require('http');
var upperCase= require('upper-case')

http.createServer(function (req, res) {
  res.write(upperCase('Uki is the best place to learn programming !'));
  res.end();
}).listen(8000);
```

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

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

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

eventEmitter.on('bark', myEventHandler);
eventEmitter.emit('bark');
```

```
parathan@parathan-hp-notebook:~/Documents/nodejs$
parathan@parathan-hp-notebook:~/Documents/nodejs$ node dog.js
I bark when I see strangers!
parathan@parathan-hp-notebook:~/Documents/nodejs$
```

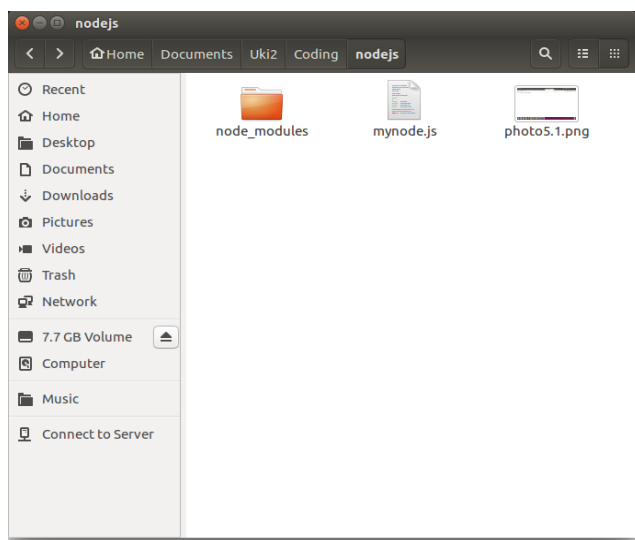
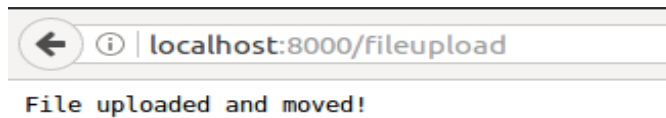
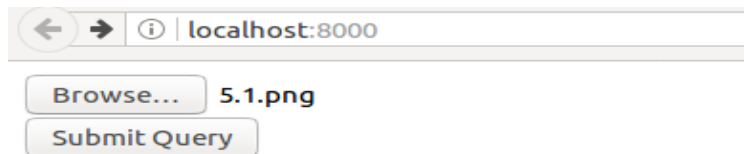
UKI IS THE BEST PLACE TO LEARN PROGRAMMING!

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

http.createServer(function (req, res) {
  if (req.url == '/fileupload') {
    var form = new formidable.IncomingForm();
    form.parse(req, function (err, fields, files) {
      var oldpath = files.fileupload.path;
      var newpath = '/home/ukistu07/Documents/Uki2/Coding/nodejs' + files.fileupload.name;
      fs.rename(oldpath, newpath, function (err) {
        if (err) throw err;
        res.write('File uploaded and moved!');
        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="fileupload"><br>');
    res.write('<input type="submit">');
    res.write('</form>');
    return res.end();
  }
}).listen(8000);
```



```

var nodemailer = require('nodemailer');

var transporter = nodemailer.createTransport({
  service: 'gmail',
  auth: {
    user: 'parathan98@gmail.com',
    pass: '*****'
  }
});

var mailOptions = {
  from: 'parathan98@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);
  }
});

```

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 mailer = require('nodemailer');
mailer.SMTP = {
  host: 'host.com',
  port: 587,
  use_authentication: true,
  user: 'parathan98@gmail.com',
  pass: 'xxxxxx'
};

fs.readFile("./attachment.txt", function (err, data) {

  mailer.send_mail({
    sender: 'parathan98@gmail.com',
    to: 'info@uki.life',
    subject: 'Attachment!',
    body: 'mail content...',
    attachments: [{ 'filename': 'attachment.txt', 'content': data }]
  }, function(err, success) {
    if (err) {
      // Handle error
    }
  })
});

```