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.

Sum of two numbers is: The Sum is: 444 & Average is: 283.5

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)

```
s/lecture — Atom

Exerlis

1 var http = require('http');

2
3 http.createServer(function (req, res) {
4 res.writeHead(200, {'Content-Type': 'text/html'});
5 res.write("Welcome to Uki. I am Varun");
6 res.end();
7 }).listen(8080);
8
```

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

3.1 Write a paragraph about Uki into that file

```
8  var http = require('http');
9  var fs= require("fs");
http.createServer(function(req.res))
11  fs.appendFile('ukinode.txt','Hey Uki!',
12  function(err)(if(err)throw err;
13  console.log('Saved!');
14  });
15
```

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

```
19  var fs = require('fs');
20  fs.appendFile('ukinode.txt',' Iam an Ukian!', function(err){
21   if(err)throw err;
22   console.log('Saved!');
23  });
```

3.4 Rename the file as ukinodejsexercise1.txt

```
var fs= require('fs');
fs.rename('ukinode.txt','ukinodejsexercisel.txt', function(err){
if(err)throw err;
console.log('File Renamed!');
}];
```

3.5 Delete the file you created

```
31 var fs= require('fs');
32 fs.unlink('ukinodejsexercisel.txt', function(err){
33    if(err)throw err;
34    console.log('File Renamed!');
35 });

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```

```
[nodemon] steam exit - waiting for changes before restart
[nodemon] starting 'node Exer1.js'
File Renamed!
[nodemon] clean exit - waiting for changes before restart
```

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.

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

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

http.createServer(function (req, res) {

pes.writeHead(200, {'Content-Type': 'text/html'});

res.write(caps("Uki is the best place to learn programming !"));

res.end();

}).listen(8080);

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```

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

```
45 var action = require('events');
46 var emitter = new action.EventEmitter();
47 var dogSound = function(){
48     console.log("I bark when i see strangers !");
49  }
50     emitter.on('bark', dogSound);
51     emitter.emit('þark');
52
```

```
| nodemon | restarting due to changes...
| codemon | starting 'node Exeri.js' |
| I bark when i see strangers ! |
| nodemon | clean exit - waiting for changes before restart |
| nodemon | restarting due to changes... |
| nodemon | starting 'node Exeri.js' |
| nodemon | clean exit - waiting for changes before restart |
| nodemon | restarting 'due to changes... |
| nodemon | restarting 'due to changes... |
| nodemon | starting 'node Exeri.js' |
```

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



