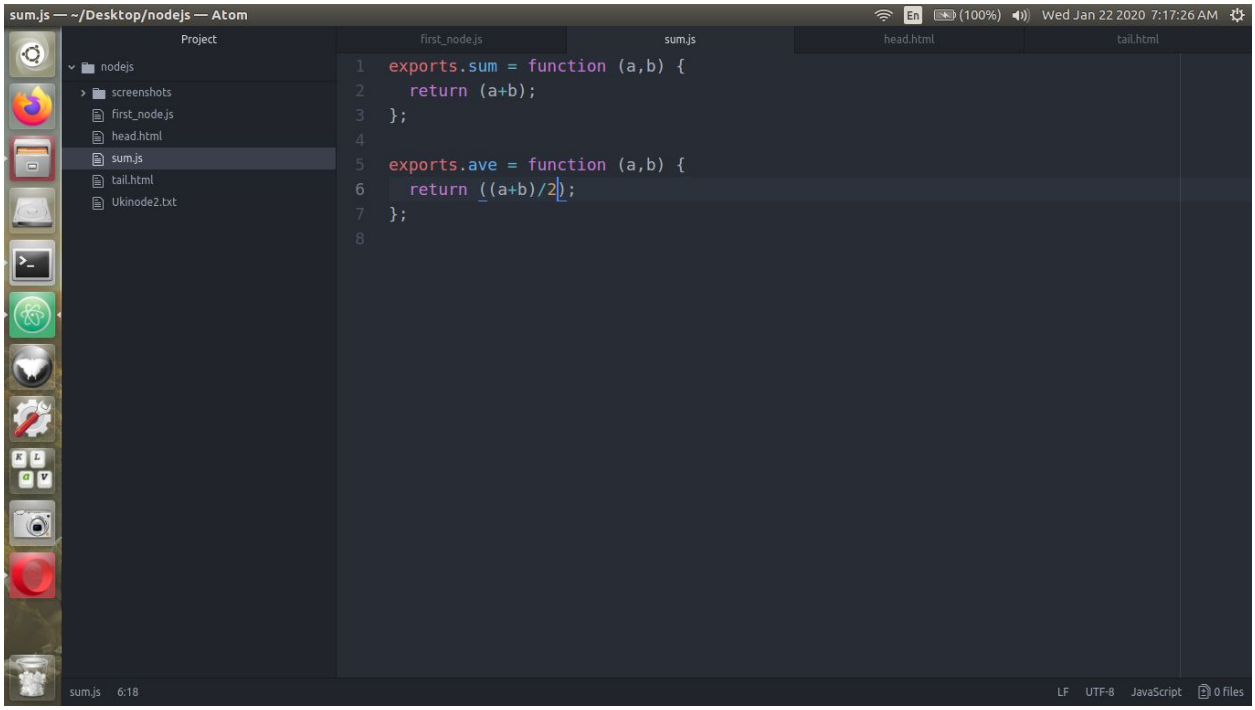
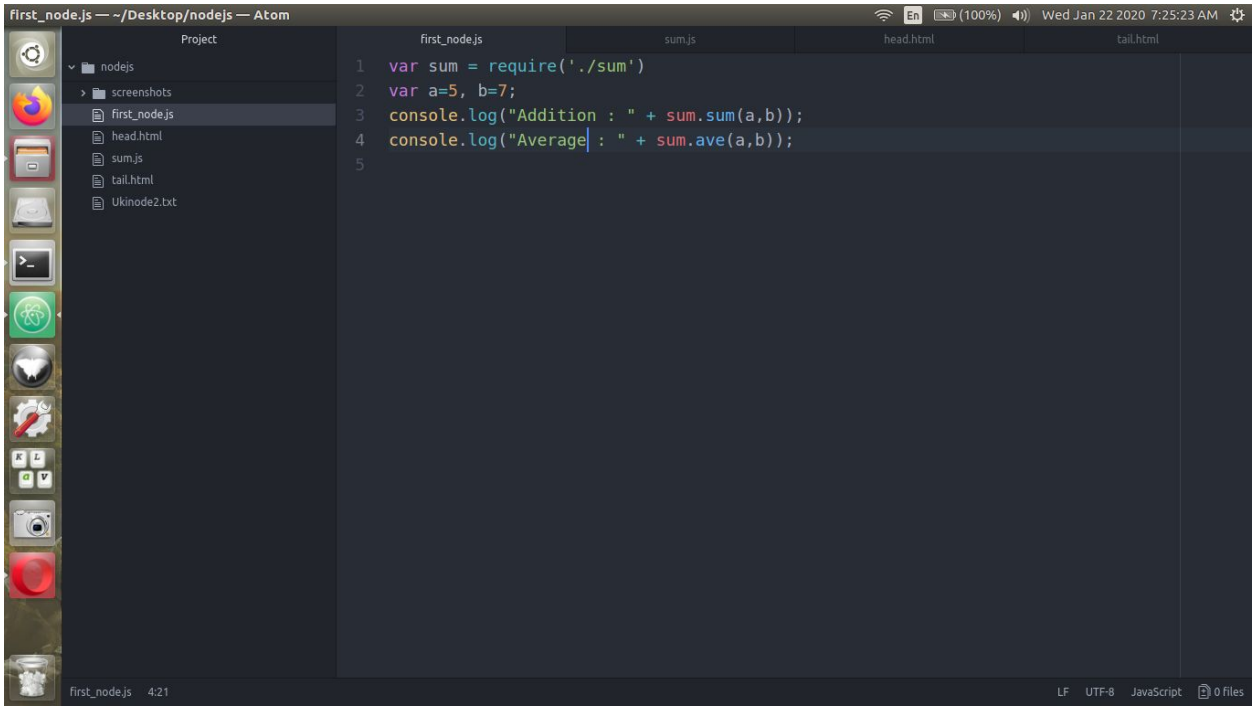
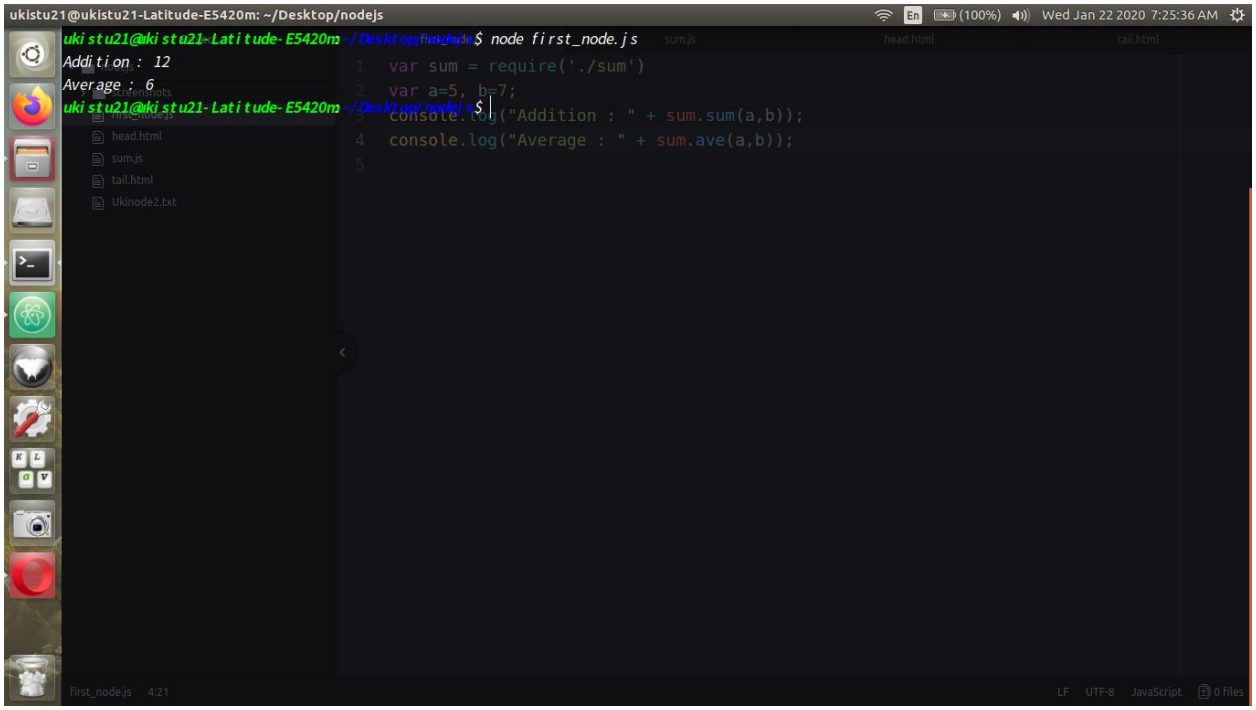
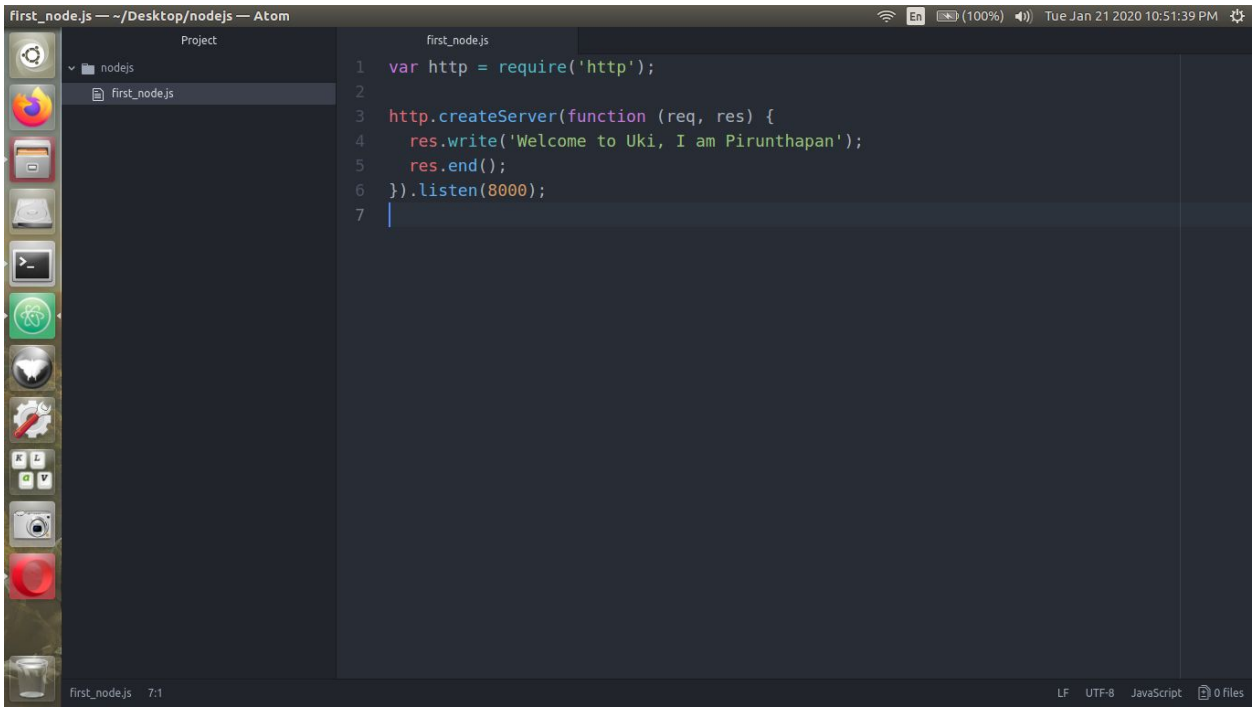
1. Create a custom module which returns the sum and average of any two numbers passed into it. Require the module and run the server by passing 123 and 321 so that the server prints out the sum and average.

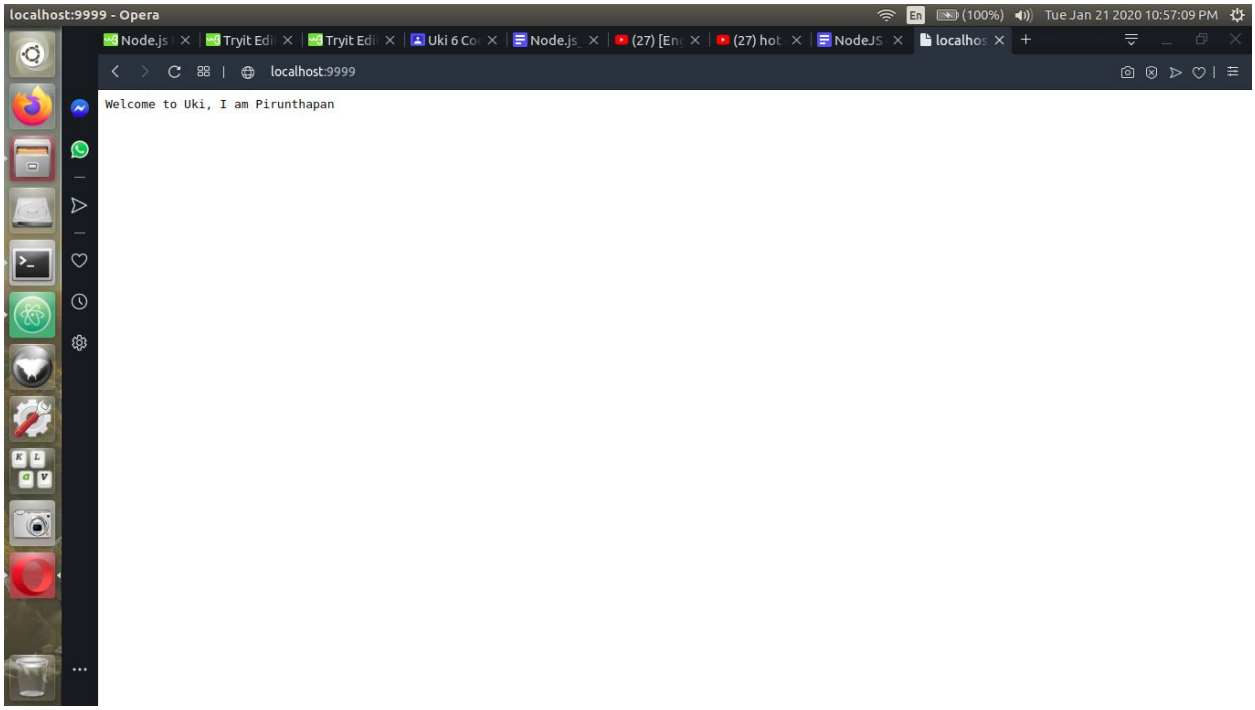

sum.js — ~/Desktop/nodejs — Atom
Wed Jan 22 2020 7:17:26 AM
Project
nodejs
screenshots
first_node.js
head.html
sum.js
tail.html
Ukinode2.txt
first_node.js
sum.js
head.html
tail.html
exports.sum = function (a,b) {
return (a+b);
};
exports.ave = function (a,b) {
return ((a+b)/2);
};
sum.js 6:18
LF UTF-8 JavaScript 0 files

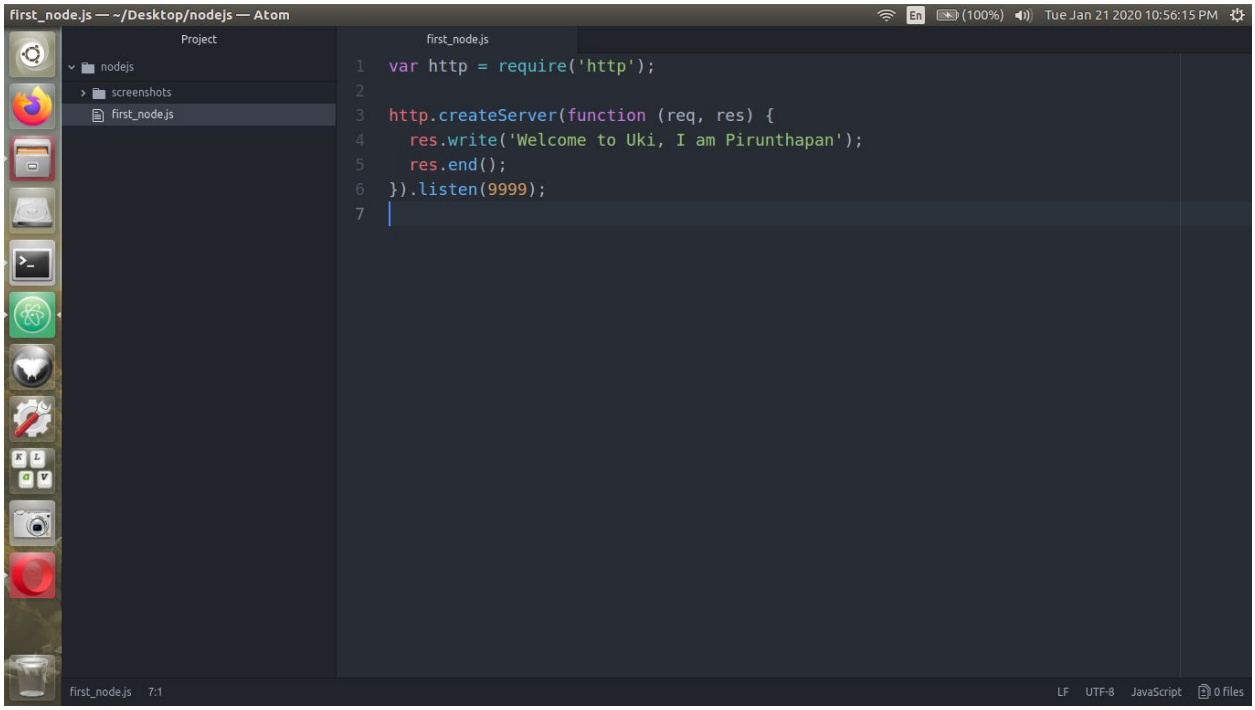

first_node.js — ~/Desktop/nodejs — Atom
Wed Jan 22 2020 7:25:23 AM
Project
nodejs
screenshots
first_node.js
head.html
sum.js
tail.html
Ukinode2.txt
first_node.js
sum.js
head.html
tail.html
var sum = require('./sum')
var a=5, b=7;
console.log("Addition : " + sum.sum(a,b));
console.log("Average : " + sum.ave(a,b));
first_node.js 4:21
LF UTF-8 JavaScript 0 files

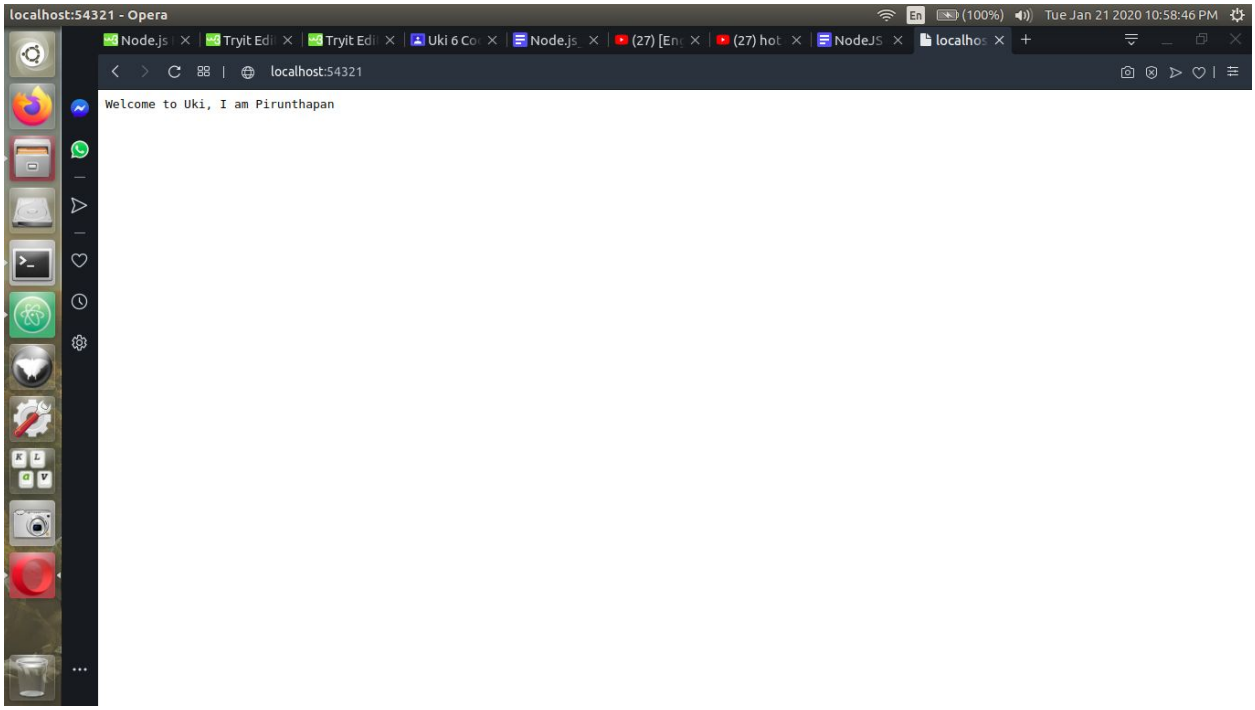


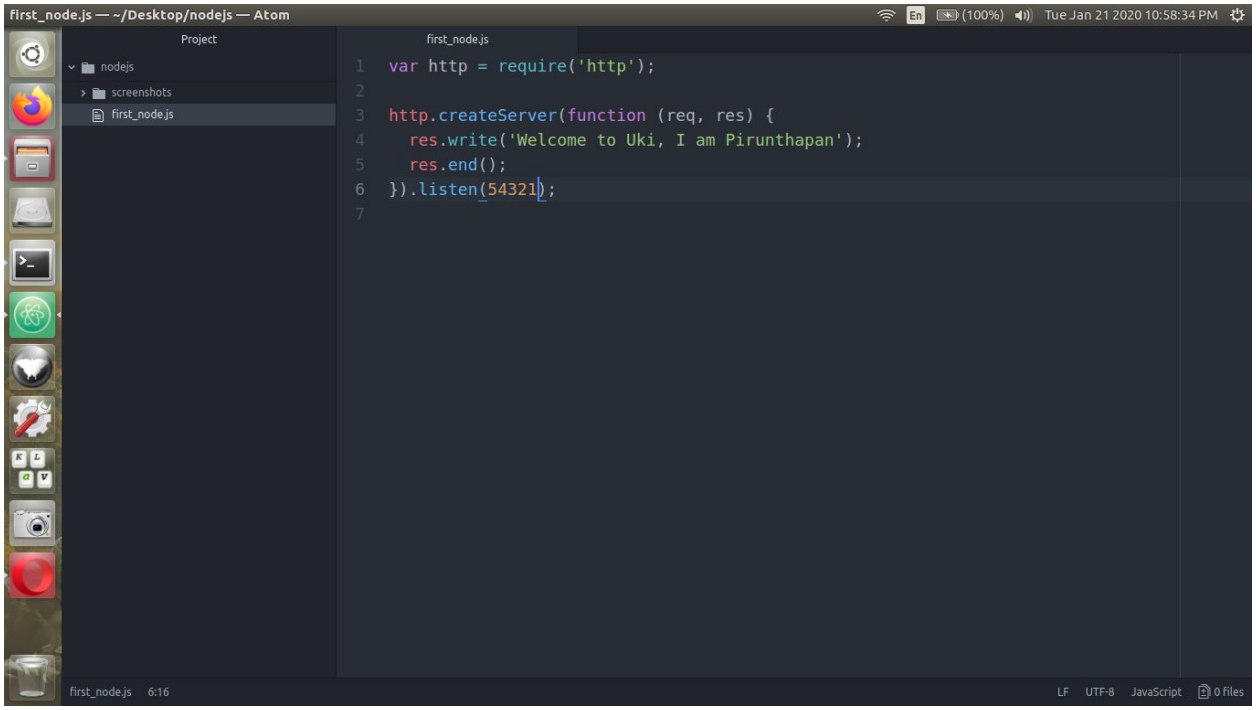
2. Create a simple http server and print “Welcome to Uki. I am **yourname**” when a request is sent to your server via the port 8000. (Note - Change different port numbers and check)

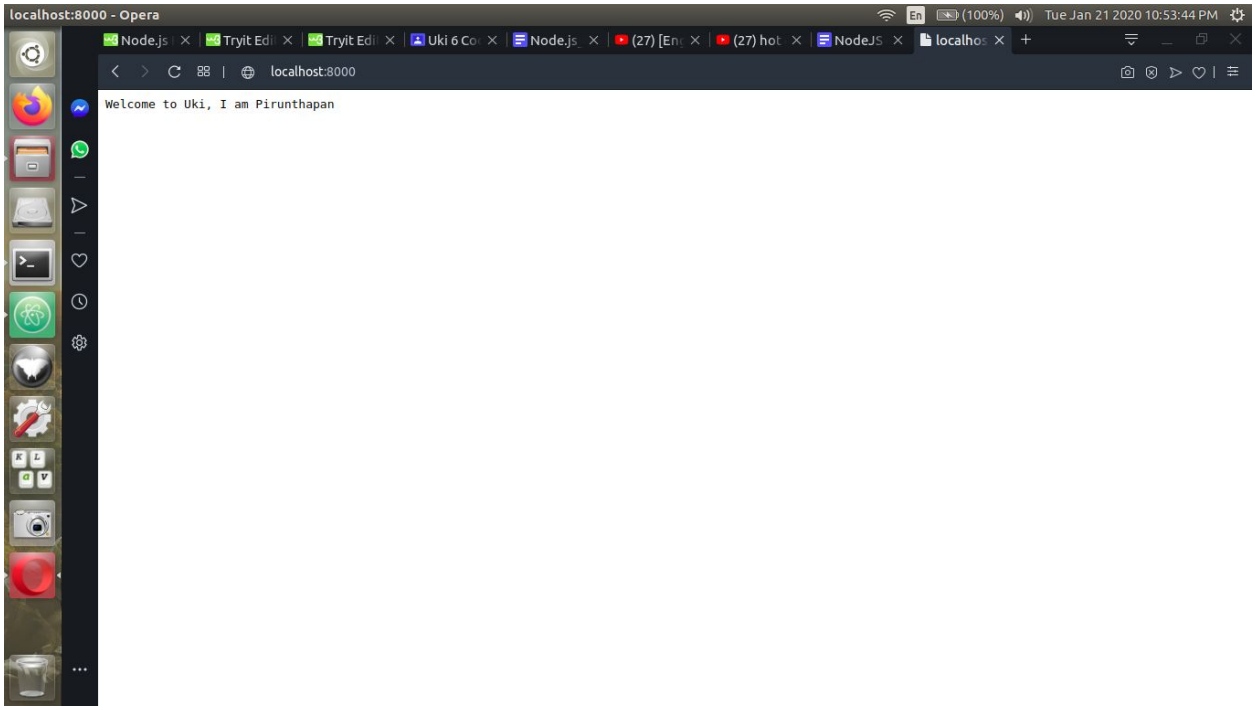



localhost:9999 - Opera
Tue Jan 21 2020 10:57:09 PM
localhost:9999
Welcome to Uki, I am Pirunthapan

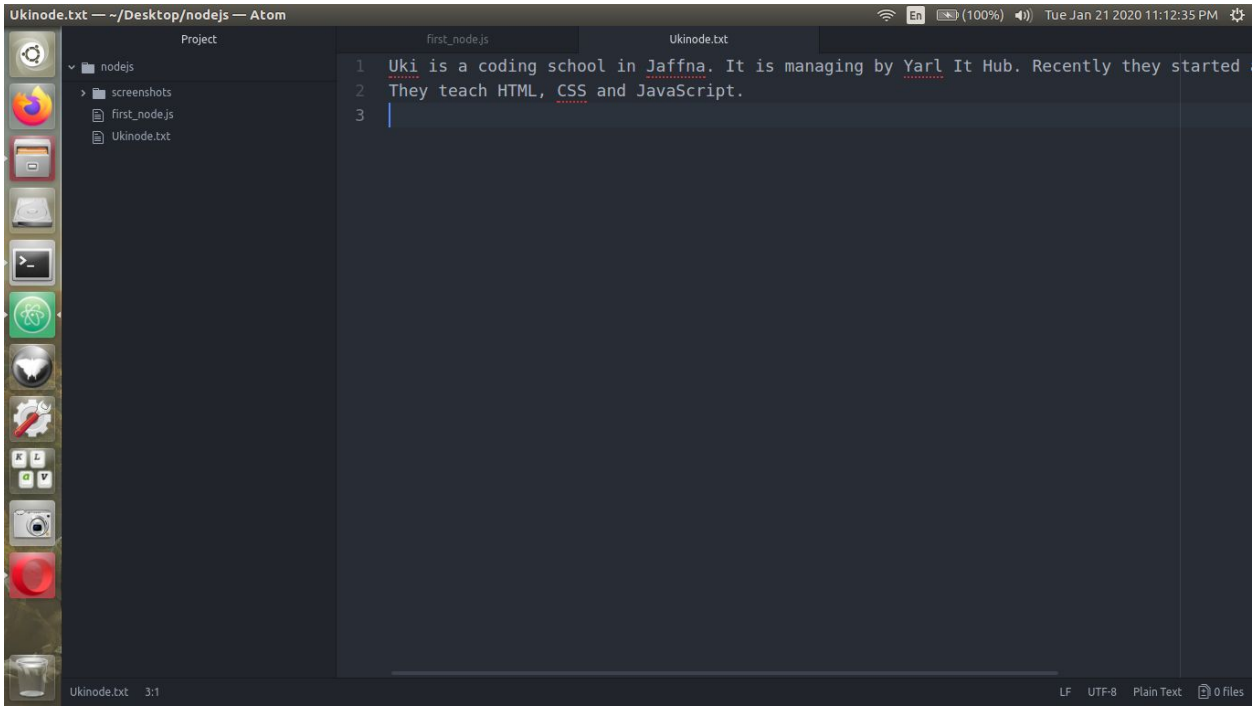

first_node.js — ~/Desktop/nodejs — Atom
Tue Jan 21 2020 10:56:15 PM
Project
nodejs
screenshots
first_node.js
var http = require('http');
http.createServer(function (req, res) {
res.write('Welcome to Uki, I am Pirunthapan');
res.end();
}).listen(9999);
first_node.js 7:1
LF UTF-8 JavaScript 0 files


localhost:54321 - Opera
Tue Jan 21 2020 10:58:46 PM
Node.js
Tryit Edi
Tryit Edi
Uki 6 Co
Node.js_
(27) [En
(27) hot
NodeJS
localhos
localhost:54321
Welcome to Uki, I am Pirunthapan

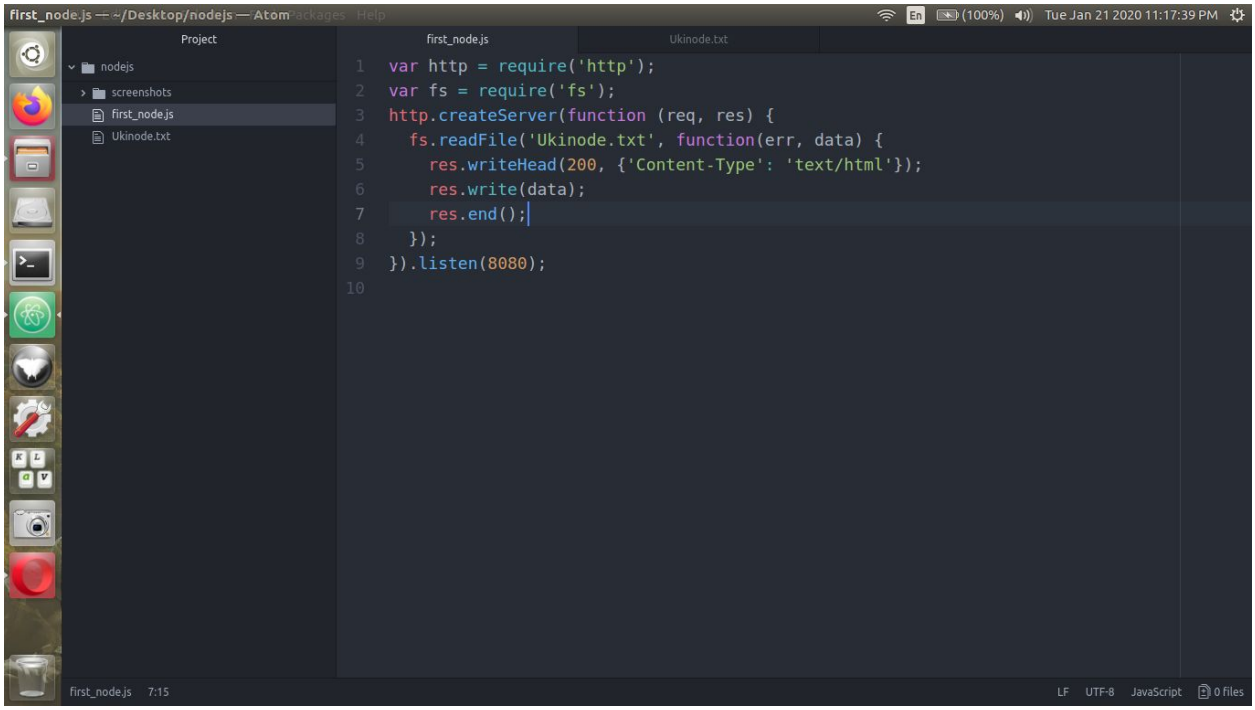


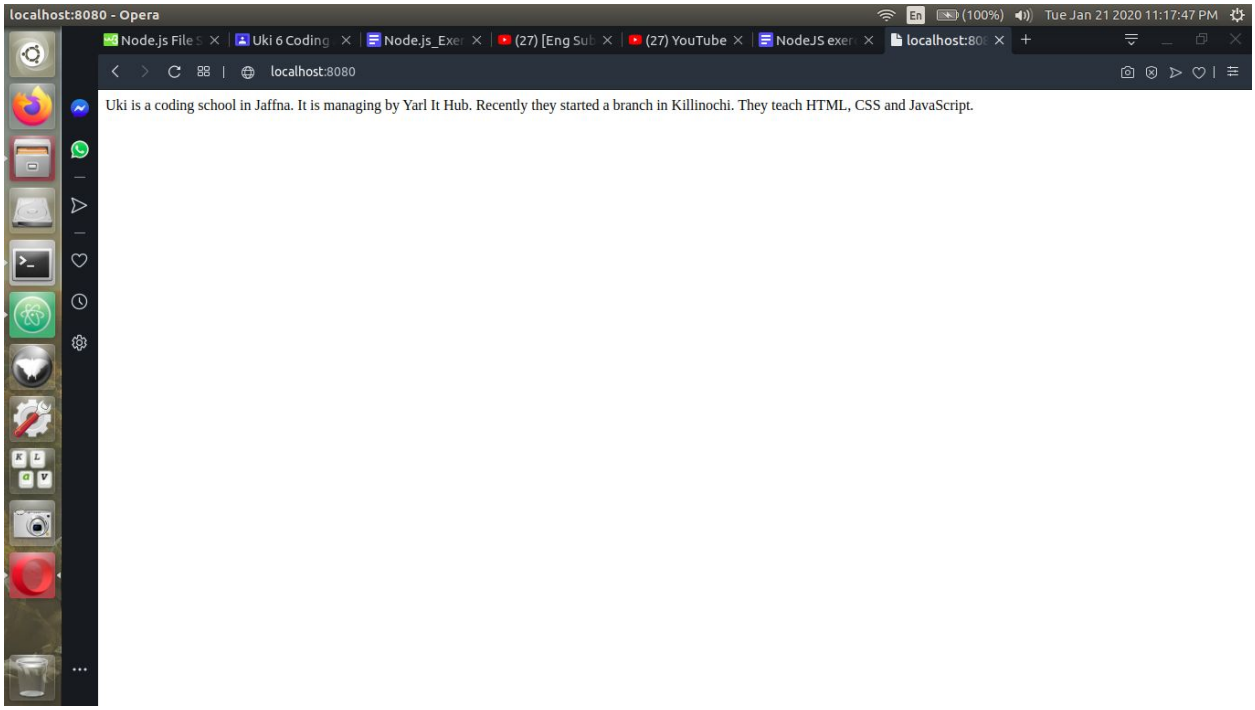


3. Using the file system module create a new file called ukinode.txt
   3.1 Write a paragraph about Uki into that file

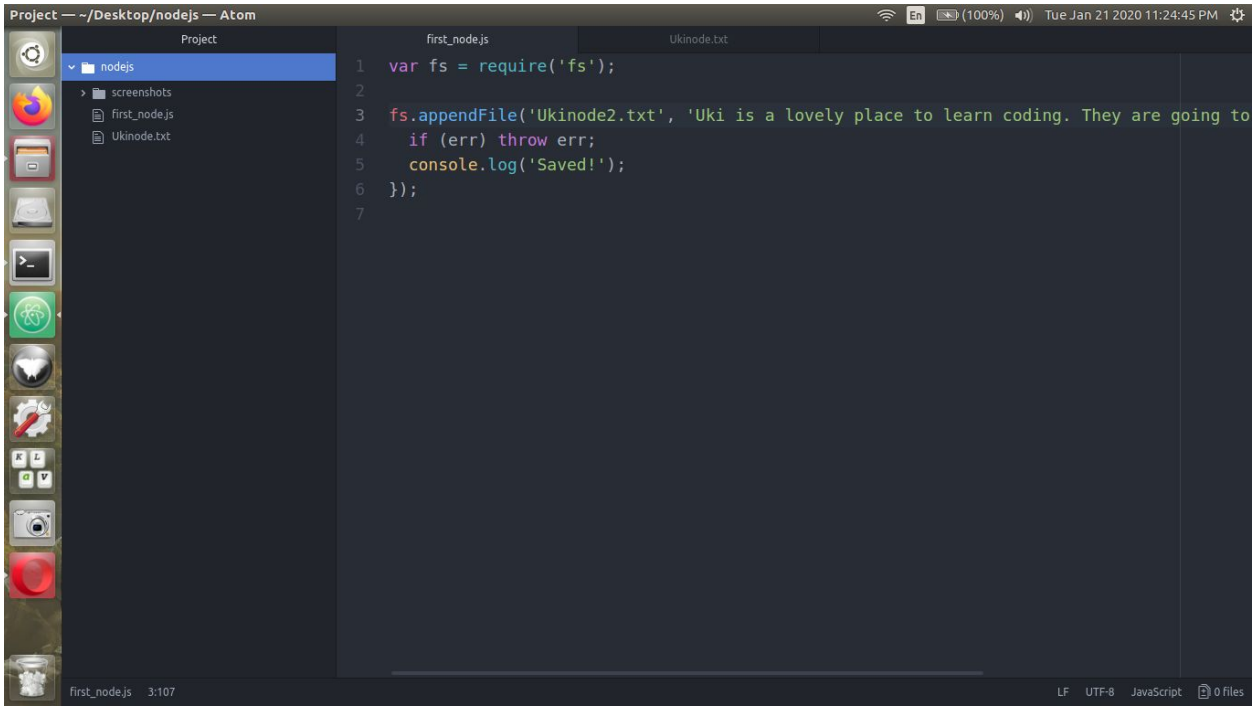


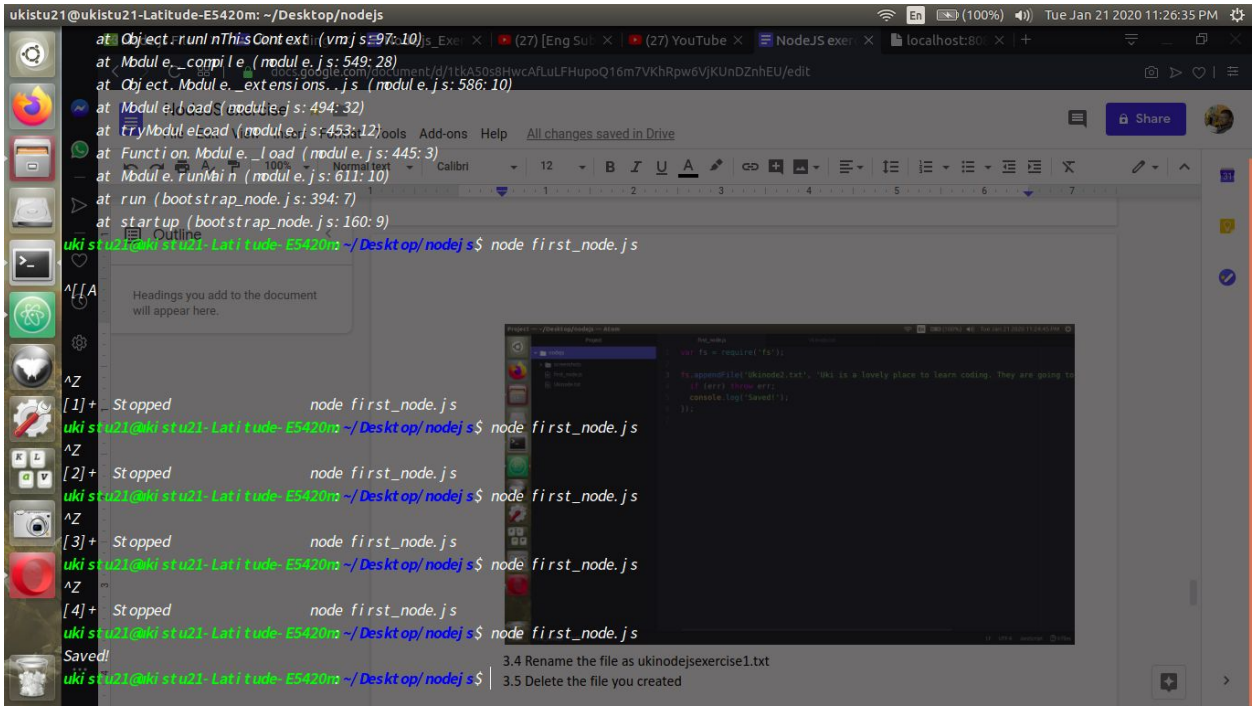
3.2 Serve that file to the client (Read File) over your server

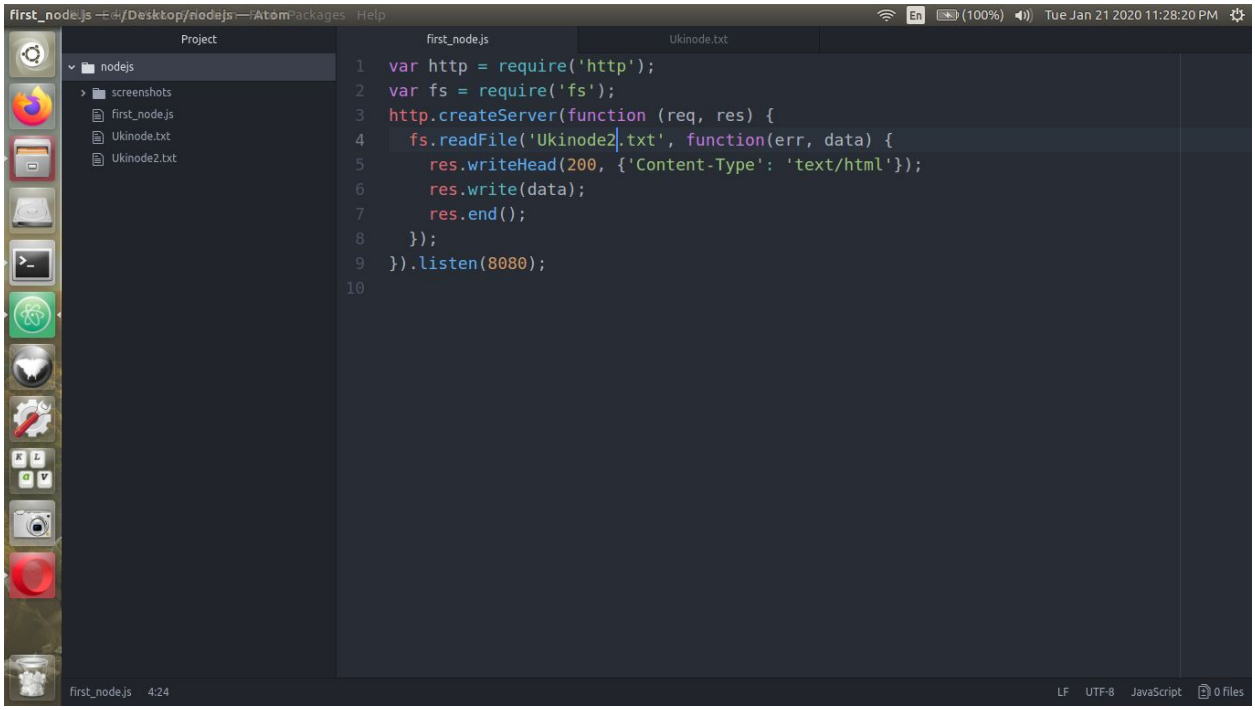




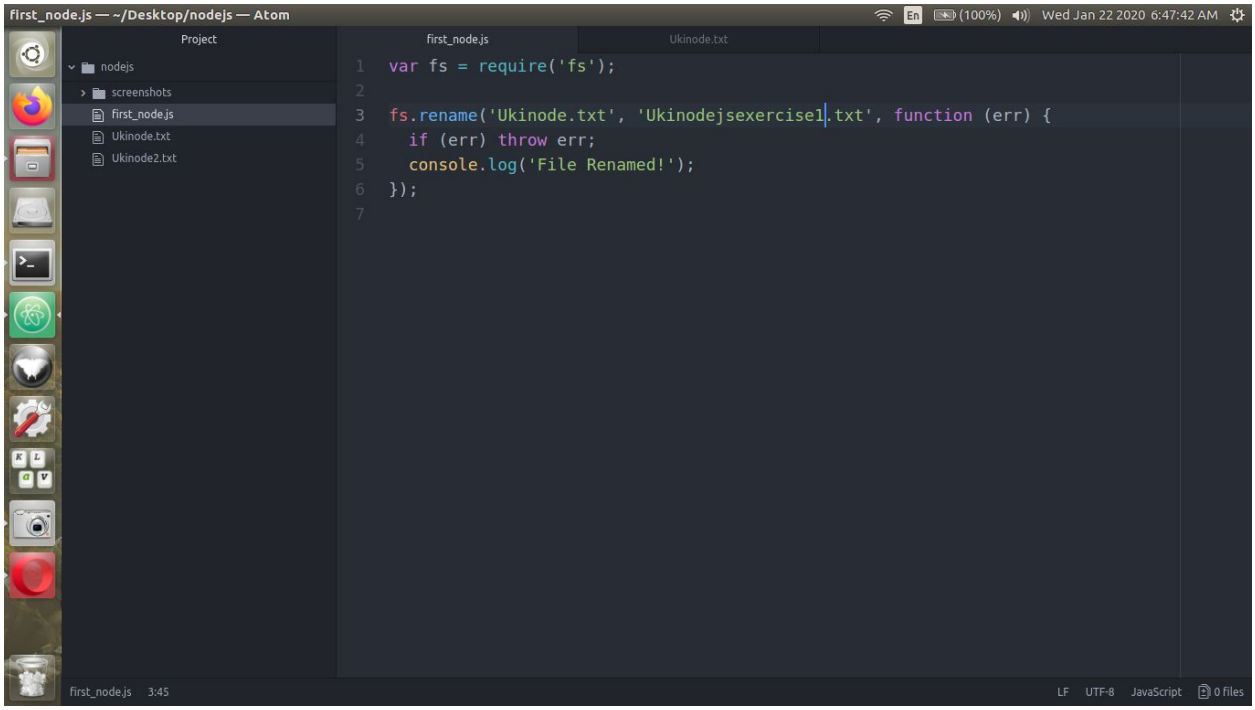
3.3 Append another paragraph about Uki and now serve the new file

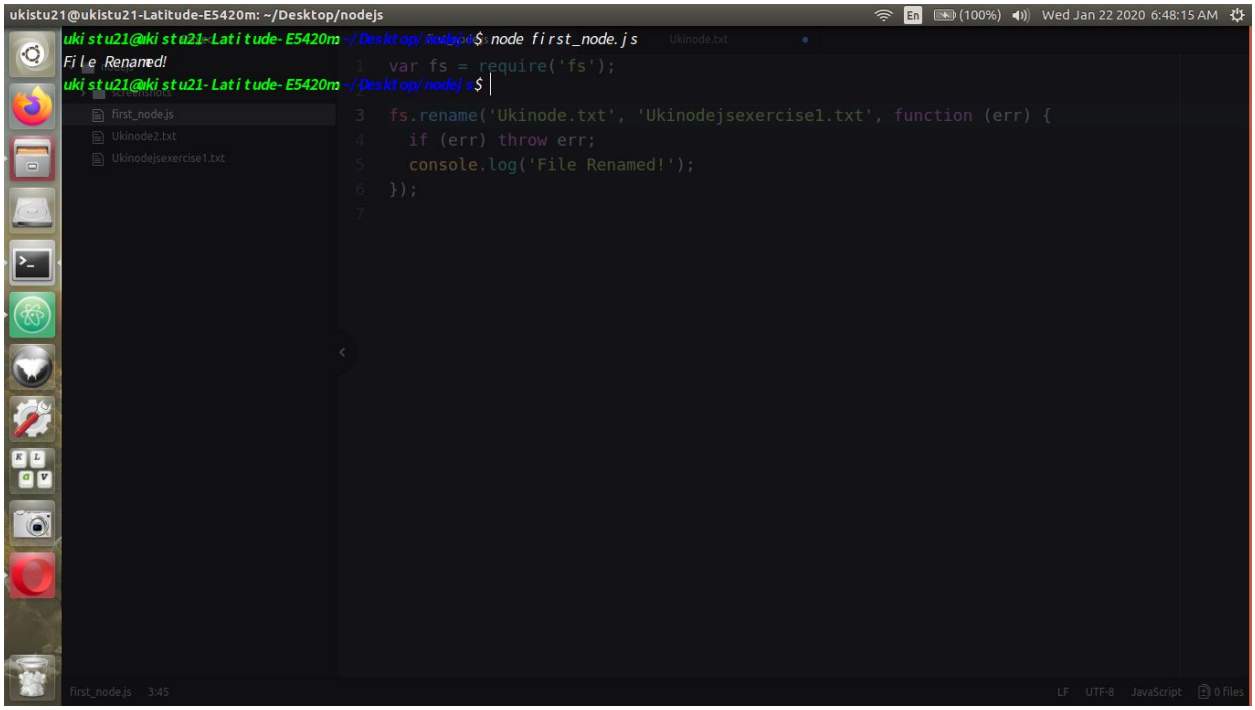

Project — ~/Desktop/nodejs — Atom
Tue Jan 21 2020 11:24:45 PM
Project
nodejs
screenshots
first_node.js
Ukinode.txt
first_node.js
Ukinode.txt
var fs = require('fs');
fs.appendFile('Ukinode2.txt', 'Uki is a lovely place to learn coding. They are going to
if (err) throw err;
console.log('Saved!');
});
first_node.js 3:107
LF UTF-8 JavaScript 0 files


ukistu21@ukistu21-Latitude-E5420m: ~/Desktop/nodejs
Tue Jan 21 2020 11:26:35 PM
at Object.runInThisContext (vm.js:97:10)
at Module._compile (module.js:549:28)
at Object.Module._extensions..js (module.js:586:10)
at Module.load (module.js:494:32)
at tryModuleLoad (module.js:453:12)
at Function.Module._load (module.js:445:3)
at Module.runMain (module.js:611:10)
at run (bootstrap_node.js:394:7)
at startup (bootstrap_node.js:160:9)
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$ node first_node.js
^[[A
Headings you add to the document will appear here.
^Z
[1]+ Stopped node first_node.js
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$ node first_node.js
^Z
[2]+ Stopped node first_node.js
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$ node first_node.js
^Z
[3]+ Stopped node first_node.js
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$ node first_node.js
^Z
[4]+ Stopped node first_node.js
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$ node first_node.js
Saved!
ukistu21@ukistu21-Latitude-E5420m:~/Desktop/nodejs$
3.4 Rename the file as ukinodejsexercise1.txt
3.5 Delete the file you created

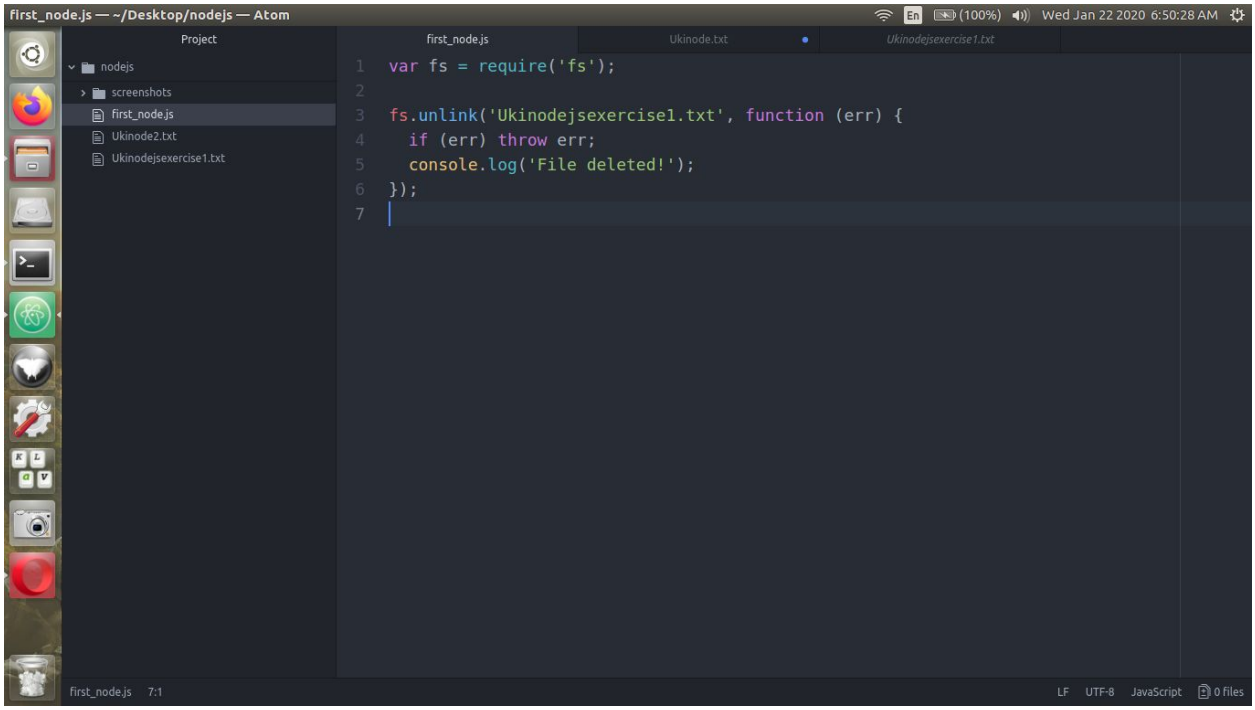


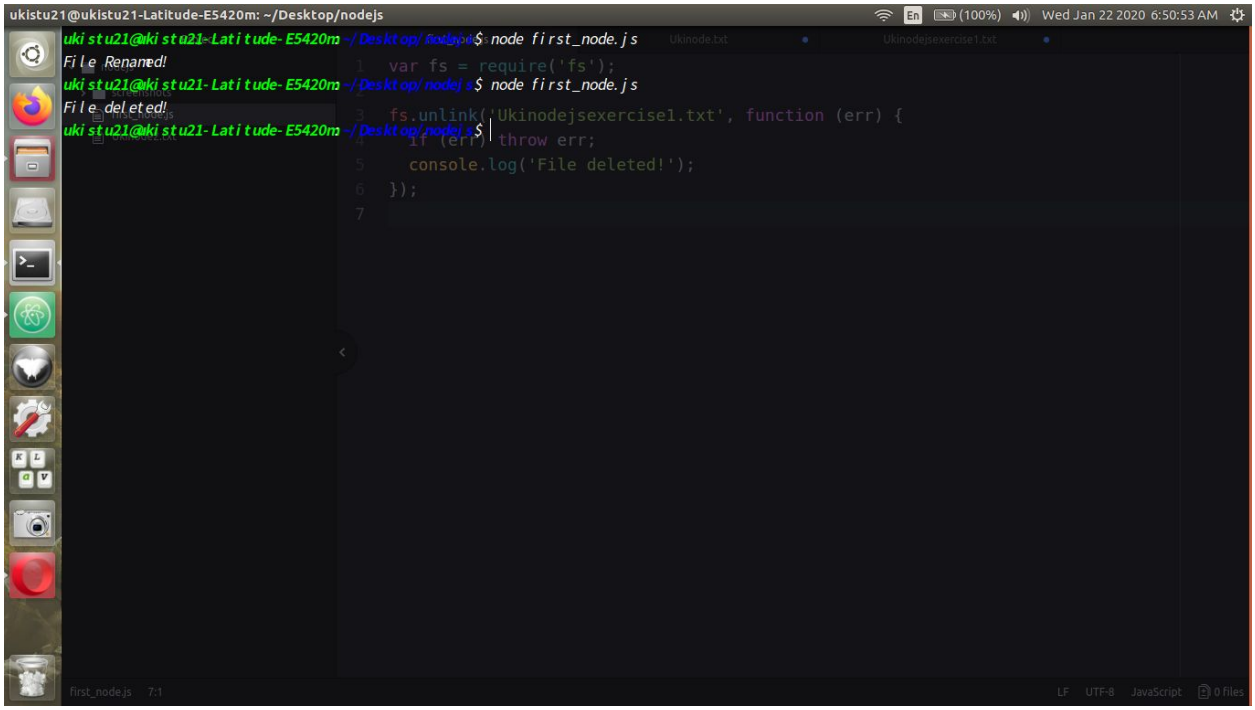
3.4 Rename the file as ukinodejsexercise1.txt





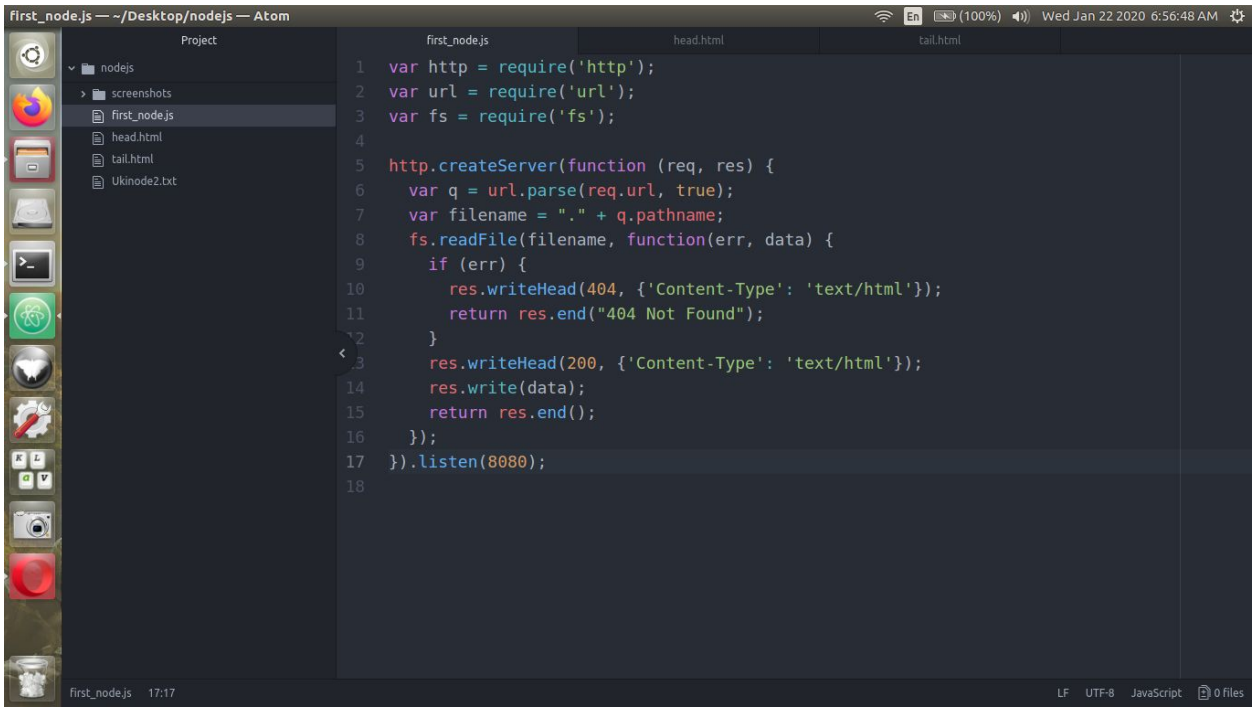
3.5 Delete the file you created

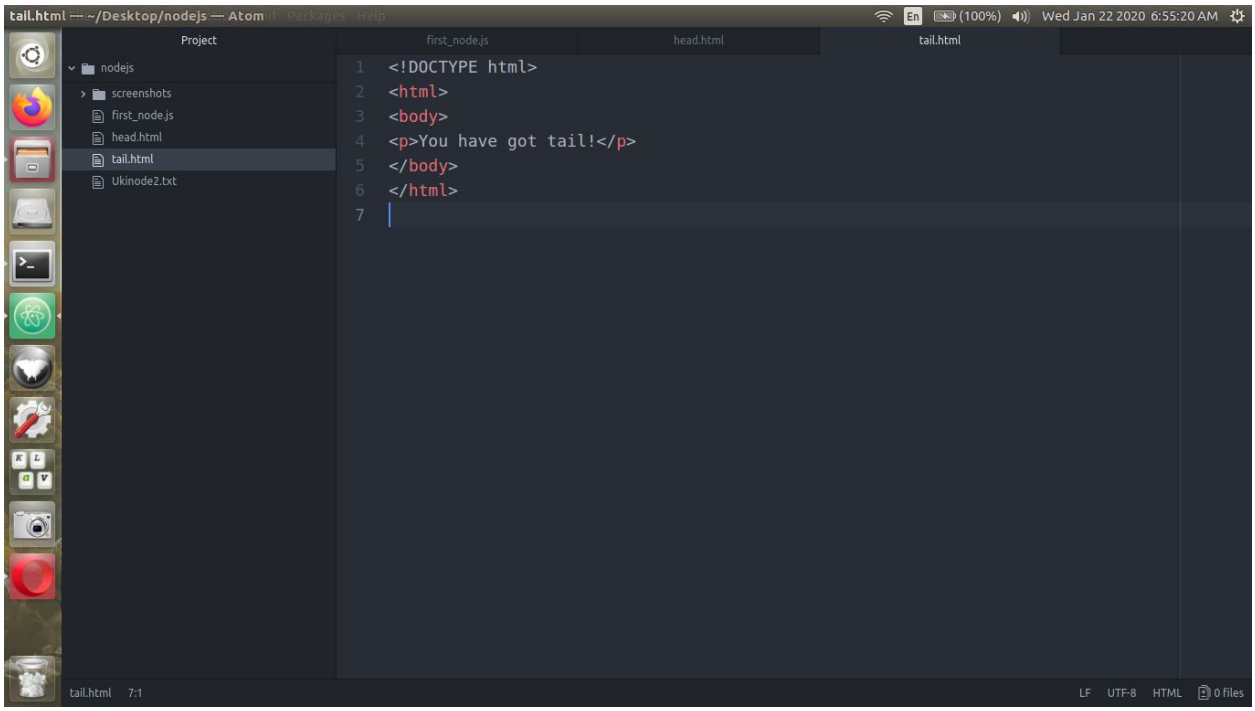


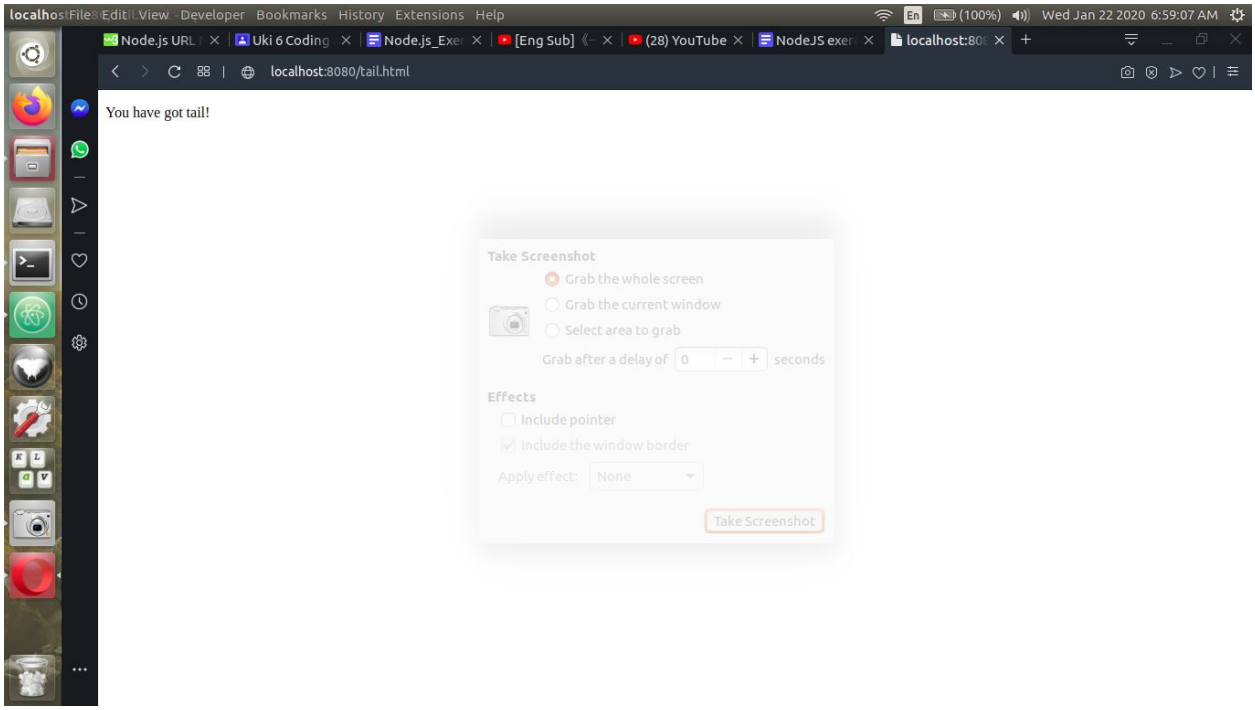


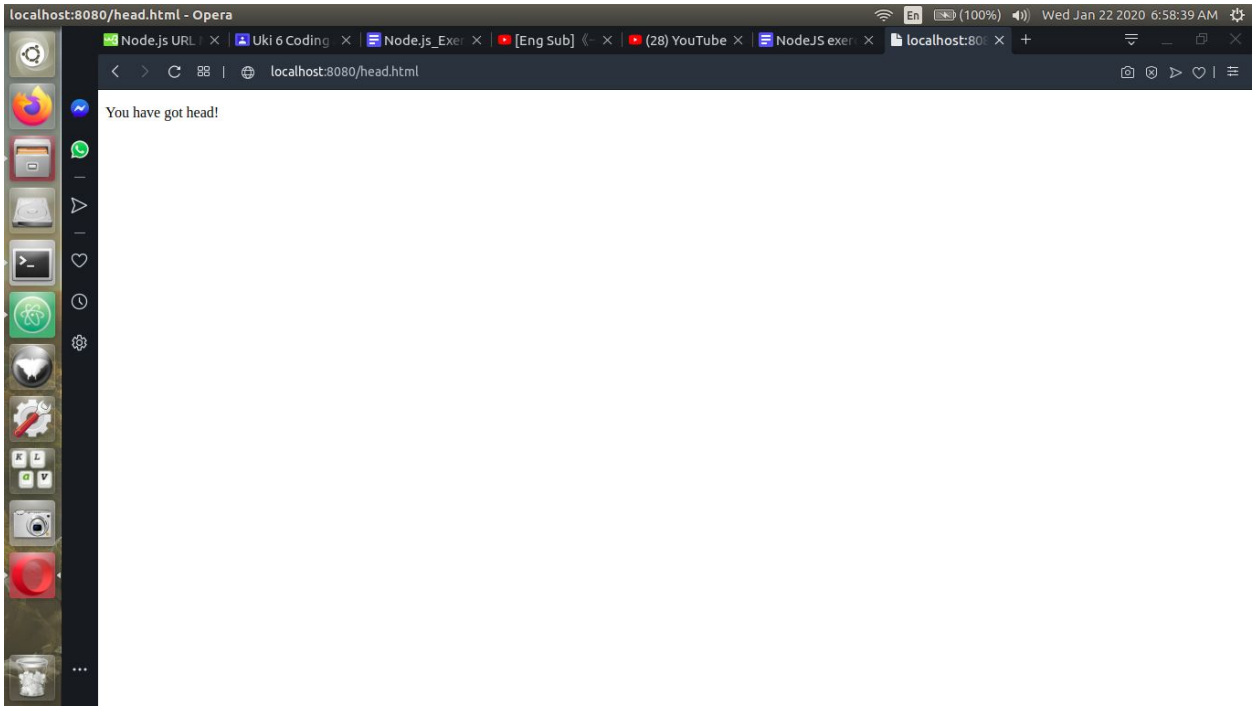
4. Create two html files called head.html which is a web page which says ‘you have got head ‘ and tail.html which is a web page which says ‘you have got tail’ and save them in the same folder as your node.js files. Create a Node.js file that opens the requested file and returns the content to the client. 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:
http://localhost:8080/head.html - > You have got head
http://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.

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.