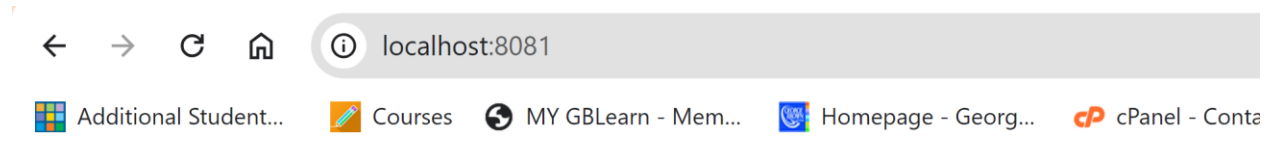


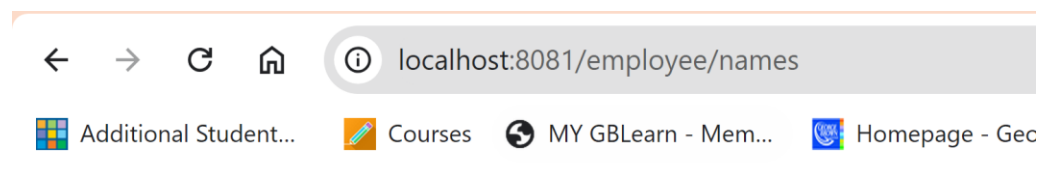
LAB 3

COMP3123

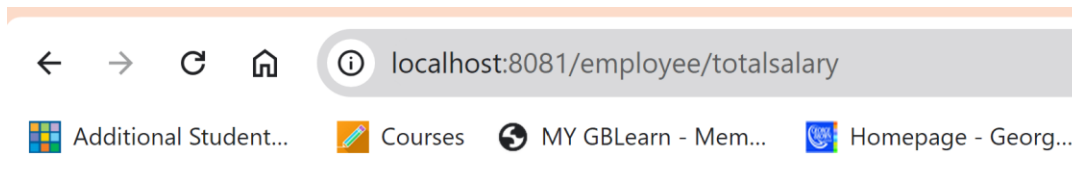
Margaret Terechtchenko 101297977



Welcome to Lab Exercise 03



["Denial Roast","Krish Lee","Pritesh Patel","Racks Jacson"]



```
{"total_salary":23500}
```

```
ew Go Run ... 101297977_COMP3123-exec03
JS Employee.js X JS index.js
week03_exercise > JS Employee.js > ...
1
2 let employees = [
3   {id: 1, firstName: "Pritesh", lastName: "Patel", email: "pritesh@gmail.com", Salary:5000},
4   {id: 2, firstName: "Krish", lastName: "Lee", email: "krish@gmail.com", Salary:4000},
5   {id: 3, firstName: "Racks", lastName: "Jacson", email: "racks@gmail.com", Salary:5500},
6   {id: 4, firstName: "Denial", lastName: "Roast", email: "denial@gmail.com", Salary:9000}
7 ]
8 //TODO - Create Employee Module here and export to use in index.js
9 module.exports = employees;
```

```
Go Run ... 101297977_COMP3123-exec03
JS Employee.js JS index.js X
week03_exercise > JS index.js > ...
1 var http = require("http");
2
3 //TODO - Use Employee Module here
4 ///
5 const employees = require('./Employee');
6
7 console.log("Lab 03 - NodeJs");
8
9 //TODO - Fix any errors you found working with lab exercise
10 //Define Server Port
11 const port = process.env.PORT || 8081
12 //Create Web Server using CORE API
13 const server = http.createServer((req, res) => {
14   if (req.method !== 'GET') {
15     res.end(`{"error": "${http.STATUS_CODES[405]}"}`);
16   } else {
17     if (req.url === '/') {
18       //TODO - Display message "<h1>Welcome to Lab Exercise 03</h1>"
19       res.writeHead(200, {'Content-Type': 'text/html'});
20       res.end("<h1>Welcome to Lab Exercise 03</h1>");
21     }
22   }
23 });
24 server.listen(port, () => {
25   console.log(`Server is running on port ${port}`);
26 });
```

```

21
22     } else if (req.url === '/employee') {
23
24         //TODO - Display all details for employees in JSON format
25         const emp_info = JSON.stringify(employees);
26         res.writeHead(200, {'Content-Type': 'application/json'});
27         return res.end(emp_info);
28
29     } else if (req.url === '/employee/names') {
30         //TODO - Display only all employees {first name + lastname} in Ascending order in JSON Array
31         //e.g. [ "Ash Lee", "Mac Mohan", "Pritesh Patel"]
32         const full_names = employees.map(e => e.firstName + ' ' + e.lastName).toSorted();
33         const names = JSON.stringify(full_names);
34         res.writeHead(200, {'Content-Type': 'application/json'});
35         return res.end(names);
36
37     } else if (req.url === '/employee/totalsalary') {
38         //TODO - Display Sum of all employees salary in given JSON format
39         //e.g. { "total_salary" : 100 }
40         const salary = employees.reduce((total, e) => total + e.Salary, 0);
41         const res_data = { "total_salary" : salary };
42         const total_salary = JSON.stringify(res_data);
43         res.writeHead(200, {'Content-Type': 'application/json'});
44         return res.end(total_salary);
45     } else
46         res.end(`{"error": "${http.STATUS_CODES[404]}"}`);
47 }
48 })

```

```

49
50 server.listen(port, () => {
51     console.log(`Server listening on port ${port}`);
52 })

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

Server listening on port 8081
○ PS C:\fullstackLab\101297977_COMP3123-exec03> node "c:\fullstackLab\101297977_COMP3123-exec03\week03_exercise\index.js"
Lab 03 - NodeJs
Server listening on port 8081
□

```