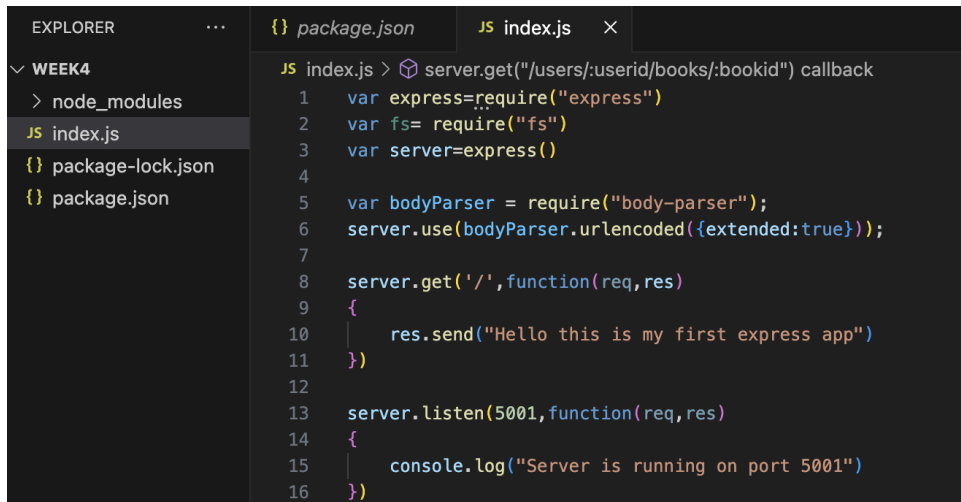


## Week 4

### Exercise 1

Write code for a basic express hello application.



The screenshot shows the Visual Studio Code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project named 'WEEK4' with a 'node\_modules' directory and files 'index.js', 'package-lock.json', and 'package.json'. The code editor shows the 'index.js' file with the following code:

```
1  var express=require("express")
2  var fs= require("fs")
3  var server=express()
4
5  var bodyParser = require("body-parser");
6  server.use(bodyParser.urlencoded({extended:true}));
7
8  server.get('/',function(req,res)
9  {
10     res.send("Hello this is my first express app")
11 })
12
13 server.listen(5001,function(req,res)
14 {
15     console.log("Server is running on port 5001")
16 })
```

Hello this is my first express app

### Exercise 2

Add two more urls in the index.js

```
17
18 server.get('/about',function(req,res)
19 {
20 |   res.send('this is a basic express app')
21 | })
22
23 server.get("/users/:userid/books/:bookid", function(req,res)
24 {
25 |   res.send(req.params)
26 | })
```

this is a basic express app

```
{"userid":"25","bookid":"1243534"}
```

### Exercise 3

Create a file named student.json and add records into it

```
1  {
2    "Student1" :
3    {
4      "Name" : "Ryan",
5      "Age" : "22",
6      "Qualification" : "Bsc",
7      "Email" : "idk123@gmail.com",
8      "id" : 1
9    },
10   "Student2" :
11   {
12     "Name" : "Ana",
13     "Age" : "21",
14     "Qualification" : "Bsc",
15     "Email" : "fashion@gmail.com",
16     "id" : 2
17   },
18   "Student3" :
19   {
20     "Name" : "Harry",
21     "Age" : "85",
22     "Qualification" : "Bsc",
23     "Email" : "oldman@gmail.com",
24     "id" : 3
25   }
26 }
```

## Part 2

Read the json file and write code so your web application can access and print the data.

```
{ "status": true, "Status_code": 200, "request": "/getstudents", "request Method": "GET", "Student Data": { "Student1":  
{ "Name": "Ryan", "Age": "22", "Qualification": "Bsc", "Email": "idk123@gmail.com", "id": 1 }, "Student2": { "Name": "Ana", "Age": "21", "Qualification": "Bsc", "Email": "fashion@gmail.com", "id": 2 }, "Student3":  
{ "Name": "Harry", "Age": "85", "Qualification": "Bsc", "Email": "oldman@gmail.com", "id": 3 } } }
```

```
reubensearle@Reubens-MacBook-Pro week4 % node index.js  
Server is running on port 5001  
{  
  "Student1" :  
  {  
    "Name" : "Ryan",  
    "Age" : "22",  
    "Qualification" : "Bsc",  
    "Email" : "idk123@gmail.com",  
    "id" : 1  
  },  
  "Student2" :  
  {  
    "Name" : "Ana",  
    "Age" : "21",  
    "Qualification" : "Bsc",  
    "Email" : "fashion@gmail.com",  
    "id" : 2  
  },  
  "Student3" :  
  {  
    "Name" : "Harry",  
    "Age" : "85",  
    "Qualification" : "Bsc",  
    "Email" : "oldman@gmail.com",  
    "id" : 3  
  }  
}
```

### Part 3

Search and print a specific record

```
["Name":"Harry","Age":"85","Qualification":"Bsc","Email":"oldman@gmail.com","id":3}
```

```
at /Users/reubensearle/ch5006/week4/index.js:62:17  
at FSReqCallback.readFileAfterClose [as oncomplete] (node
```

```
Node.js v22.9.0
```

```
reubensearle@Reubens-MacBook-Pro week4 % node index.js
```

```
Server is running on port 5001
```

```
student {
```

```
  Name: 'Ana',
```

```
  Age: '21',
```

```
  Qualification: 'Bsc',
```

```
  Email: 'fashion@gmail.com',
```

```
  id: 2
```

```
}
```

```
student {
```

```
  Name: 'Harry',
```

```
  Age: '85',
```

```
  Qualification: 'Bsc',
```

```
  Email: 'oldman@gmail.com',
```

```
  id: 3
```

```
}
```

Each time i put in the url GetStudent/1 it prints the data assigned to the ID 1 and so on and so forth. It prints the data in the console when requested and it also prints the data on the website as seen in the above screenshots

#### Exercise 4

Create a fall called StudentInfo.html and adds the code on the moodle into it. Then add code to the index.js file so you can access the form on Localhost:5001/studentinfo

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

    Email: 'oldman@gmail.com',
    id: 3
  }
^C
⊗ reubensearle@Reubens-MacBook-Pro week4 % node index.js
Server is running on port 5001
student {
  Name: 'Harry',
  Age: '85',
  Qualification: 'Bsc',
  Email: 'oldman@gmail.com',
  id: 3
}
^C
⊗ reubensearle@Reubens-MacBook-Pro week4 % node index.js
Server is running on port 5001
^C
○ reubensearle@Reubens-MacBook-Pro week4 % node index.js
Server is running on port 5001
[ 'GCSE', 'A-level', 'Higher National Certificate', 'HND' ]
█

{"status":true,"message":"form details","data":{"name":"reuben Searle ","age":"24 Sex male ","Qualification":"QualificationGCSE,A-level,Higher National Certificate,HND"}}
```