

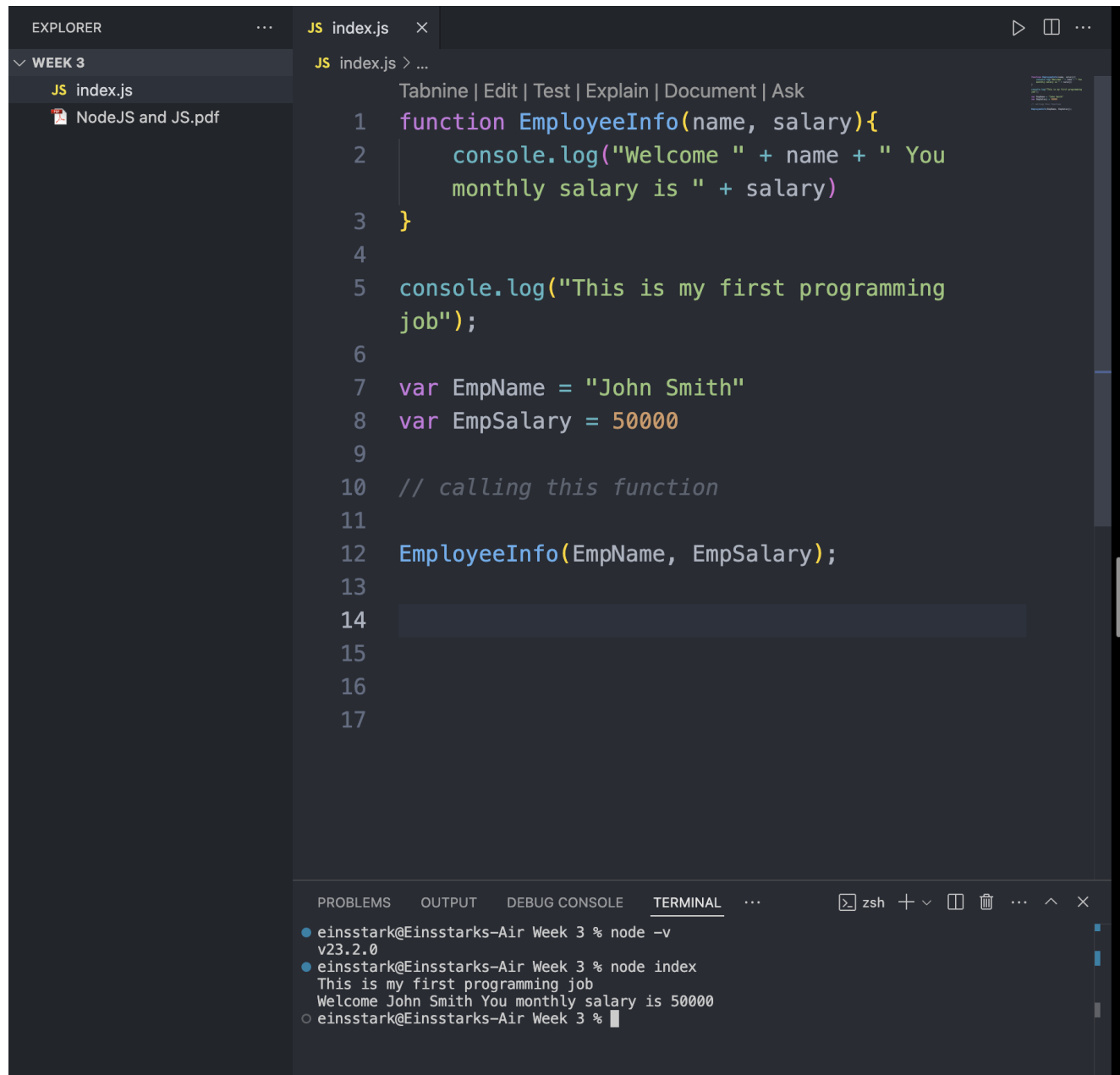
# Week 3 Portfolio

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## 1. Screenshots

### a. Exercise 1



The screenshot displays a code editor interface with a dark theme. On the left, the 'EXPLORER' sidebar shows a folder named 'WEEK 3' containing a file 'index.js' and a PDF file 'NodeJS and JS.pdf'. The main editor area shows the content of 'index.js' with the following code:

```
1 function EmployeeInfo(name, salary){
2     console.log("Welcome " + name + " You
3     monthly salary is " + salary)
4 }
5 console.log("This is my first programming
6 job");
7 var EmpName = "John Smith"
8 var EmpSalary = 50000
9
10 // calling this function
11
12 EmployeeInfo(EmpName, EmpSalary);
13
14
15
16
17
```

At the bottom, the 'TERMINAL' panel shows the execution of the code:

```
einsstark@Einsstarks-Air Week 3 % node -v
v23.2.0
einsstark@Einsstarks-Air Week 3 % node index
This is my first programming job
Welcome John Smith You monthly salary is 50000
einsstark@Einsstarks-Air Week 3 %
```

### b. Exercise 2

The screenshot shows a code editor with a dark theme. On the left, the Explorer sidebar shows a folder 'WEEK 3' containing 'index.js' and a PDF file 'NodeJS and JS.pdf'. The main editor area displays the content of 'index.js', which includes a function 'EmployeeInfo', a console log, variable declarations, a function call, and an arrow function 'EmpSkills'. The bottom panel shows the 'TERMINAL' tab with the output of running the code: 'This is my first programming job', 'Welcome John Smith You monthly salary is 50000', and 'Expert in Javascript'.

```
JS index.js
WEEK 3
  JS index.js
  NodeJS and JS.pdf

JS index.js > ...
Tabnine | Edit | Test | Explain | Document | Ask
1 function EmployeeInfo(name, salary){
2   console.log("Welcome " + name + " You
   monthly salary is " + salary)
3 }
4
5 console.log("This is my first programming
   job");
6
7 var EmpName = "John Smith"
8 var EmpSalary = 50000
9
10 // calling this function
11
12 EmployeeInfo(EmpName, EmpSalary);
13
14 // arrow function
15
Tabnine | Edit | Explain
16 const EmpSkills = (skills) => {
17   console.log("Expert in " + skills)
18 }
19 EmpSkills("Javascript") |

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS
einsstark@Einsstarks-Air Week 3 % node "/Users/einsstark/Documents/Univer
This is my first programming job
Welcome John Smith You monthly salary is 50000
Expert in Javascript
einsstark@Einsstarks-Air Week 3 %
```

## c. Exercise 3

StudentInfo.js -

JS StudentInfo.js &gt; Studentsgrade &gt; Studentsgrade

```
1  const dateofBirth = "12/12/1980"
```

```
2
```

Tabnine | Edit | Explain

```
3  const getStudentName = () => {  
4    return "write your name here"  
5  }
```

Tabnine | Edit | Explain

```
6  const getCampusName = () => {  
7    return "UEL Campus"  
8  }
```

```
9
```

```
10 // exporting functions and variables outside  
   of this module
```

```
11
```

```
12 exports.getName = getStudentName  
13 exports.location = getCampusName  
14 exports.dob = dateofBirth
```

```
15
```

```
16 // How to export functions with parameters
```

```
17
```

Tabnine | Edit | Test | Explain | Document | Ask

```
18 exports.Studentsgrade = (marks) => {  
19   if (marks > 50 && marks < 70) return ("B  
   grade")  
20   else return ("A grade")
```

```
21
```

```
22 }
```

JS index.jsJS StudentInfo.jsJS Person.js ×

JS Person.js > ...

```
1  class Student {
2      constructor(name, age, email) {
3          this.name = name;
4          this.age = age;
5          this.email = email;
6      }
7
8      Tabnine | Edit | Test | Explain | Document | Ask
9      getPersonInfo() {
10         return `
11             Name: ${this.name}
12             Age: ${this.age}
13             Email: ${this.email}
14         `;
15     }
16
17  module.exports = Student;
```

Index.js

The image shows a VS Code editor with three tabs: `index.js`, `StudentInfo.js`, and `Person.js`. The `index.js` tab is active, displaying the following JavaScript code:

```
14 // arrow function
15
16 const EmpSkills = (skills) => {
17     console.log("Expert in " + skills)
18 }
19 EmpSkills("Javascript")
20
21 const student = require('./StudentInfo')
22 const person = require('./Person')
23
24 // since getname is a function, we need to use ()
25
26 console.log("Student Name : " + student.getName())
27 console.log(student.location())
28 console.log(student.dob)
29 console.log(student.Studentsgrade())
30 console.log('grade is ' + student.Studentsgrade(60))
31
32 // creating a new person
33
34 const person1 = new person("Jim", "USA", "myemila@gmail.com")
35 console.log(person1.getPersonInfo())
```

Below the code editor is a terminal window showing the output of running the code:

```
einsstark@Einsstarks-Air Week 3 % node "/Users/einsstark/Documents/University/Web and Mobile Application Development - CN5006/Week 3/index.js"
This is my first programming job
Welcome John Smith You monthly salary is 50000
Expert in Javascript
Student Name : Deepak Kumar
UEL Campus
12/12/1980
A grade
grade is B grade

      Name: Jim
      Age: USA
      Email: myemila@gmail.com

einsstark@Einsstarks-Air Week 3 %
```

## d. Exercise 4



fetch my mac system info and print it in the terminal. Overall, this lab boosted my confidence with JavaScript and Node.js.