JavaScript Language

Edmundo Mendez, Jr.

IFT 458

09/03/2023

Introduction to JavaScript Video

In this section of the assignment, we reviewed basic JavaScript functions. Screenshots of work below:

```
JS index.js
🚥 package.json
                                X
JS index.js > ...
       function greetTheStudent(studentName){//parameter
           return `Hello there, ${studentName}`;
  6
       //Do not repeat yourself (DRY)
       const student = 'Mary Jane';
       const greet = greetTheStudent(student); //argument
  10
  11
       console.log(greet);
  12
  13
       // console.log(message + ', ' + studentName);
  14
       // console.log(message + ', ' + studentName2);
  15
  16
```

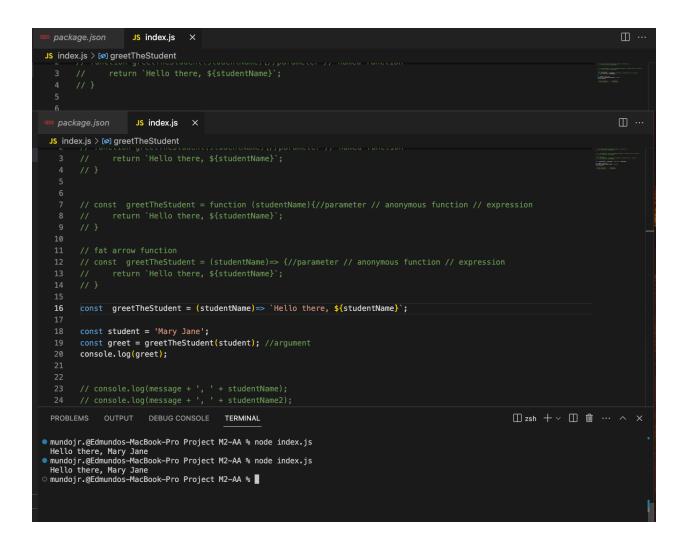
```
> zsh + ∨ □ · · · · ·
  PROBLEMS OUTPUT DEBUG CONSOLE
                                             TERMINAL
  author:
  license: (ISC)
  About to write to /Users/mundojr./Documents/College/ASU/2023 ASU FALL/IFT 458/Module 2/Assignment/Project M2-AA/package.json:
    "name": "project-m2-aa",
"version": "1.0.0",
"description": "instructor code ",
"main": "index.js",
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
},
"author": "",

• mundojr.@Edmundos-MacBook-Pro Project M2-AA % node index.js
Hello there, Mary Jane

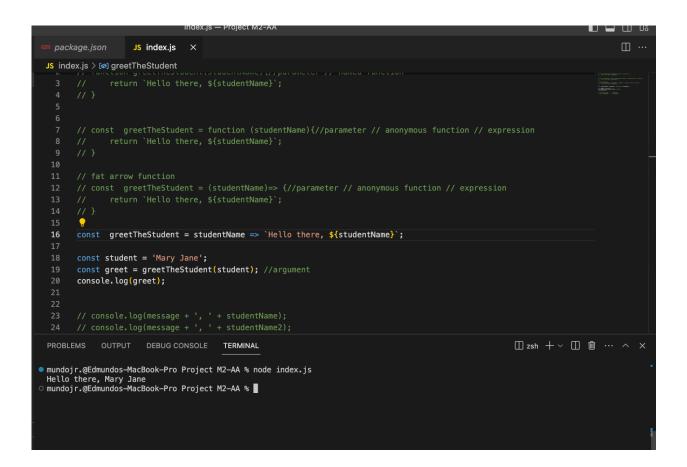
• mundojr.@Edmundos-MacBook-Pro Project M2-AA % []
 package.json X
Js index.js
  package.json > ...
      1
                 "name": "project-m2-aa",
                 "version": "1.0.0",
                 "description": "instructor code ",
                 "main": "index.js",
                  Debug
                 "scripts": {
                    "test": "echo \"Error: no test specified\" && exit 1"
                 "author": "",
                 "license": "ISC"
    11
```

Refactoring

In this next video, we learn about refactoring in JavaScript using the fat arrow function.

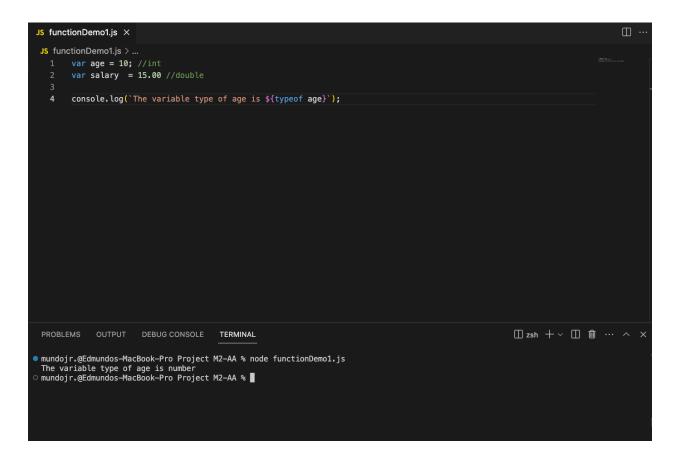


```
const greetTheStudent = studentName => `Hello there, ${studentName}`;
       // return `${lastName}, ${middleName}. ${firstName}`;
// }
       const fullName = (firstName, middleName, lastName) => `${lastName}, ${middleName}. ${firstName}`;
       const titleName = fullName('Mary', 'R', 'Jane');
       console.log(titleName);
                                                                                                  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
mundojr.@Edmundos-MacBook-Pro Project M2-AA % node index.js
 Jane, R. Mary
mundojr.@Edmundos-MacBook-Pro Project M2-AA %
      const greetTheStudent = studentName => `Hello there, ${studentName}`;
      const fullName = function(firstName, middleName, lastName) {
          return `${lastName}, ${middleName}. ${firstName}`;
      const titleName = fullName('Mary', 'R', 'Jane');
      console.log(titleName);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                  □ zsh + ∨ □ • • · · · · ×
mundojr.@Edmundos-MacBook-Pro Project M2-AA % node index.js
Jane, R. Mary mundojr.@Edmundos-MacBook-Pro Project M2-AA %
```



Variables

In this next section, we reviewed variables.



```
JS functionDemo1.js ×
 JS functionDemo1.js > ...
        var age = 10; //int
        var salary = 15.00 //double
        console.log(`The variable type of age is ${typeof age}`);
        console.log(`The variable type of salary is ${typeof salary}`);
        var name = 'John Smith';
        console.log(`The variable type of name is ${typeof name}`);
        const displayGreetings = function(name, year){
            console.log(`Happy new year ${year} ${name}`);
  14
        console.log(`The variable type of displayGreetings is ${typeof displayGreetings}`);
 PROBLEMS OUTPUT DEBUG CONSOLE
                                         TERMINAL
mundojr.@Edmundos-MacBook-Pro Project M2-AA % node functionDemo1.js
 The variable type of age is number
 The variable type of salary is number
 The variable type of name is string
The variable type of displayGreetings is function
o mundojr.@Edmundos-MacBook-Pro Project M2-AA %
```

Objects

In this next section, we reviewed objects.

```
objects.js — Assignment01

N Welcome JS functionDemo1.js JS objects.js M X

JS objects.js > ...

You, 1 second ago | 1 author (You)

1 var students = ['John', 'Sammy', 'Jamie', 'Mike', 'Jane'];

2

3 console.log(students[0]);

4 console.log(students[2]); You, 1 second ago • Uncommitted changes

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS

■ mundojr.@Edmundos-MacBook-Pro Assignment01 % node objects.js
John

■ mundojr.@Edmundos-MacBook-Pro Assignment01 % node objects.js
John

■ mundojr.@Edmundos-MacBook-Pro Assignment01 % node objects.js
John
Jamie

□ mundojr.@Edmundos-MacBook-Pro Assignment01 % node objects.js

□ mundojr.@Edmundos-MacBook-Pro Assignment01 % ■

□ mundojr.@Edmundos-MacBook-Pro Assignment01 % ■

□ mundojr.@Edmundos-MacBook-Pro Assignment01 % ■
```

Arrays

In this next section, we reviewed arrays.

Object Arrays

In this last section, we reviewed object arrays

```
JS student.js M X
                                                                                                                                              ίμ ⇔ ∘
 JS student.js > ...
  29
30
         students.push(student);
         students.push(student2);
  31
         students.forEach((item) => console.log(item.age()));
You, 1 second ago * Uncommitted changes
         console.log(students);
        // console.log(student['name']);
// console.log(student.name);
         console.log(student2.age());
  36 console.log(student.age());
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS
                                                                                                                                       mundojr.@Edmundos-MacBook-Pro Assignment01 % node student.js
      name: 'Joan Smith',
birthYear: 2002,
course: 'IFT 458',
grade: 90,
active: true,
age: [Function: age]
      name: 'Andy Smith',
birthYear: 2000,
course: 'IFT 458',
grade: 100,
active: false,
age: [Function: age]
```