

IFT544: Middleware Prog & Database Security Module 2 Assignment: JavaScript language

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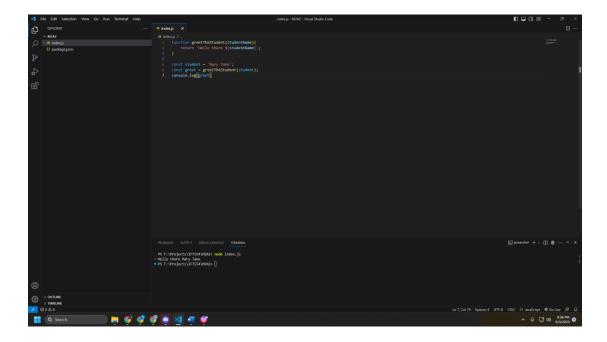
# Introduction to JavaScript -1

```
function greetTheStudent(studentName){
    return `Hello there ${studentName}`;
}

const student = 'Mary Jane';

const greet = greetTheStudent(student);

console.log(greet)
```

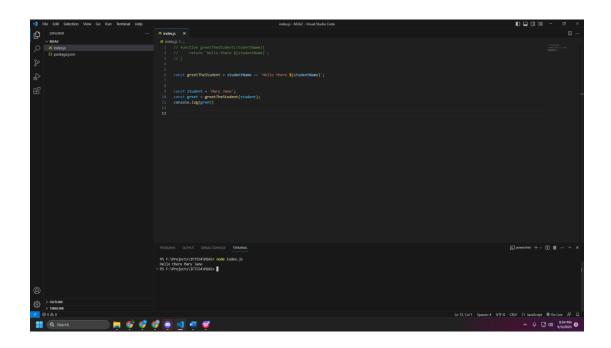


## JavaScript Function Refactoring 2

```
// function greetTheStudent(studentName){
// return `Hello there ${studentName}`;
// }

const greetTheStudent = studentName => `Hello there ${studentName}`;

const student = 'Mary Jane';
const greet = greetTheStudent(student);
console.log(greet)
```



### JavaScript Refactoring 3

```
// function greetTheStudent(studentName){
// return `Hello there ${studentName}`;

// }

const greetTheStudent = studentName => `Hello there ${studentName}`;

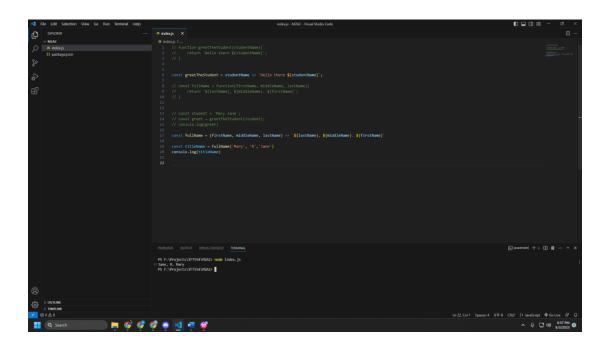
// const fullName = function(firstName, middleName, lastName){
// return `${lastName}, ${middleName}. ${firstName}`;

// }

// const student = 'Mary Jane';
// const greet = greetTheStudent(student);
// console.log(greet)

const fullName = (firstName, middleName, lastName) => `${lastName},
${middleName}. ${firstName}`

const titleName = fullName('Mary', 'R','Jane')
console.log(titleName)
```



### JavaScript Variables 4

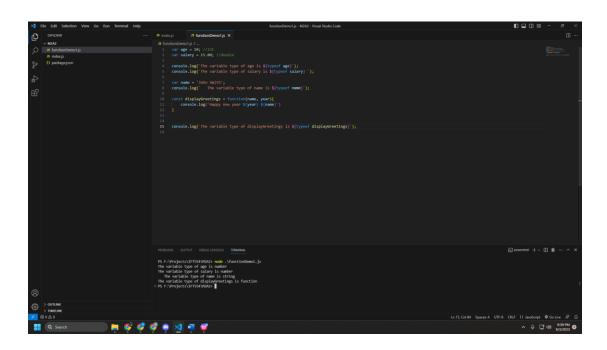
```
var age = 10; //int
var salary = 15.00; //double

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}`);

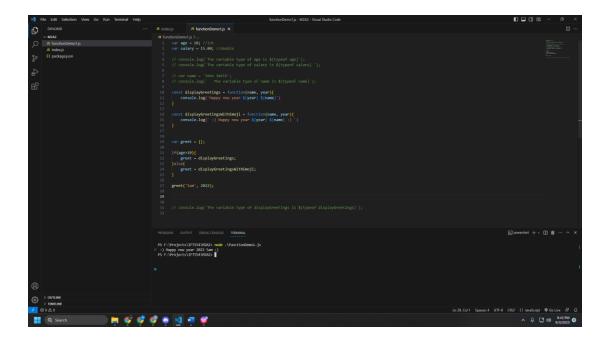
const displayGreetings = function(name, year){
    console.log(`Happy new year ${year} ${name}`);
}

console.log(`The variable type of displayGreetings is ${typeof displayGreetings}`);
```



#### JavaScript Objects 5

```
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} `);
// console.log(` The variable type of name is ${typeof name}`);
const displayGreetings = function(name, year){
    console.log(`Happy new year ${year} ${name}`)
const displayGreetingsWithEmoji = function(name, year){
    console.log(` :) Happy new year ${year} ${name} :) `)
var greet = {};
if(age>10){
    greet = displayGreetings;
}else{
    greet = displayGreetingsWithEmoji;
greet('Sam', 2022);
// console.log(`The variable type of displayGreetings is ${typeof
displayGreetings}`);
```



```
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}`);

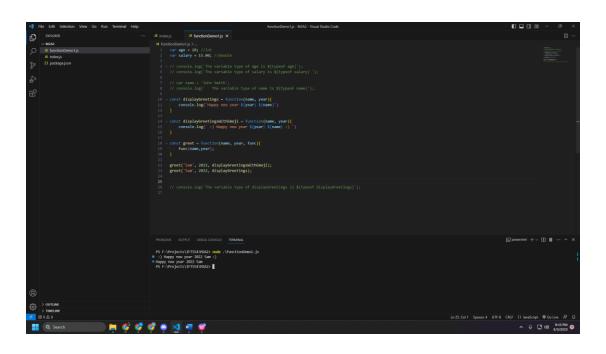
const displayGreetings = function(name, year){
    console.log(`Happy new year ${year} ${name}`)}
}

const displayGreetingsWithEmoji = function(name, year){
    console.log(`:) Happy new year ${year} ${name} :)`)
}

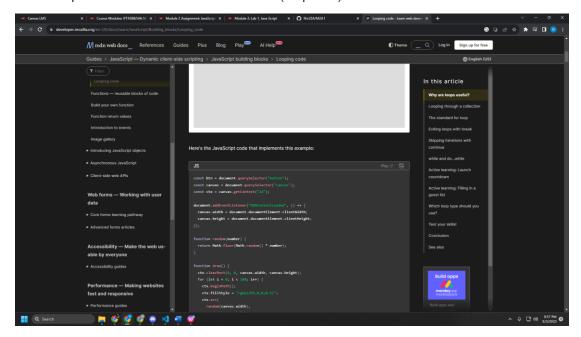
const greet = function(name, year, func){
    func(name, year);
}

greet('Sam', 2022, displayGreetingsWithEmoji);
greet('Sam', 2022, displayGreetings);

// console.log(`The variable type of displayGreetings is ${typeof displayGreetings}`);
```



## JavaScript Master Document Reference (required) 7

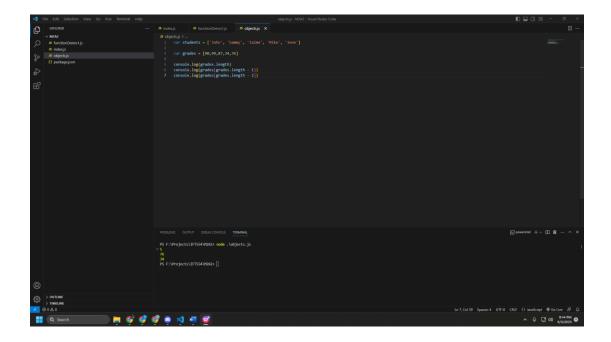


## JavaScript Objects II 8

```
var students = ['John', 'Sammy', 'Jaime', 'Mike', 'Jane']

var grades = [90,99,87,34,76]

console.log(grades.length)
console.log(grades[grades.length - 1])
console.log(grades[grades.length - 2])
```



```
var student1 = {
    name: 'Jane Austin',
    birthYear: 2002,
    course: 'IFT 478',
    grade: 90,
    active: true,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
var student2 = {
   name: 'Andy Moorre',
    birthYear: 2000,
    course: 'IFT 456',
    grade: 100,
    active: true,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
console.log(student2.age());
console.log(student1.age());
```

```
var student1 = {
    name: 'Jane Austin',
    birthYear: 2002,
    course: 'IFT 478',
    grade: 90,
    active: true,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
var student2 = {
   name: 'Andy Moorre',
   birthYear: 2000,
    course: 'IFT 456',
   grade: 100,
    active: false,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
        else{
            return 0;
console.log(student2.age());
console.log(student1.age());
```

```
| Notice | N
```

```
var students = []
var student1 = {
   name: 'Jane Austin',
   birthYear: 2002,
    course: 'IFT 478',
    grade: 90,
    active: true,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
var student2 = {
   name: 'Andy Moorre',
   birthYear: 2000,
    course: 'IFT 456',
    grade: 100,
    active: false,
    age: function calculate(){
        if(this.active){
            return 2022 - this.birthYear
        else{
          return 0;
students.push(student1);
students.push(student2);
students.forEach((item)=> console.log(item.age()));
console.log(students)
```

```
| Maria | Section | Note | Not
```