Node.js Custom Module Assignment
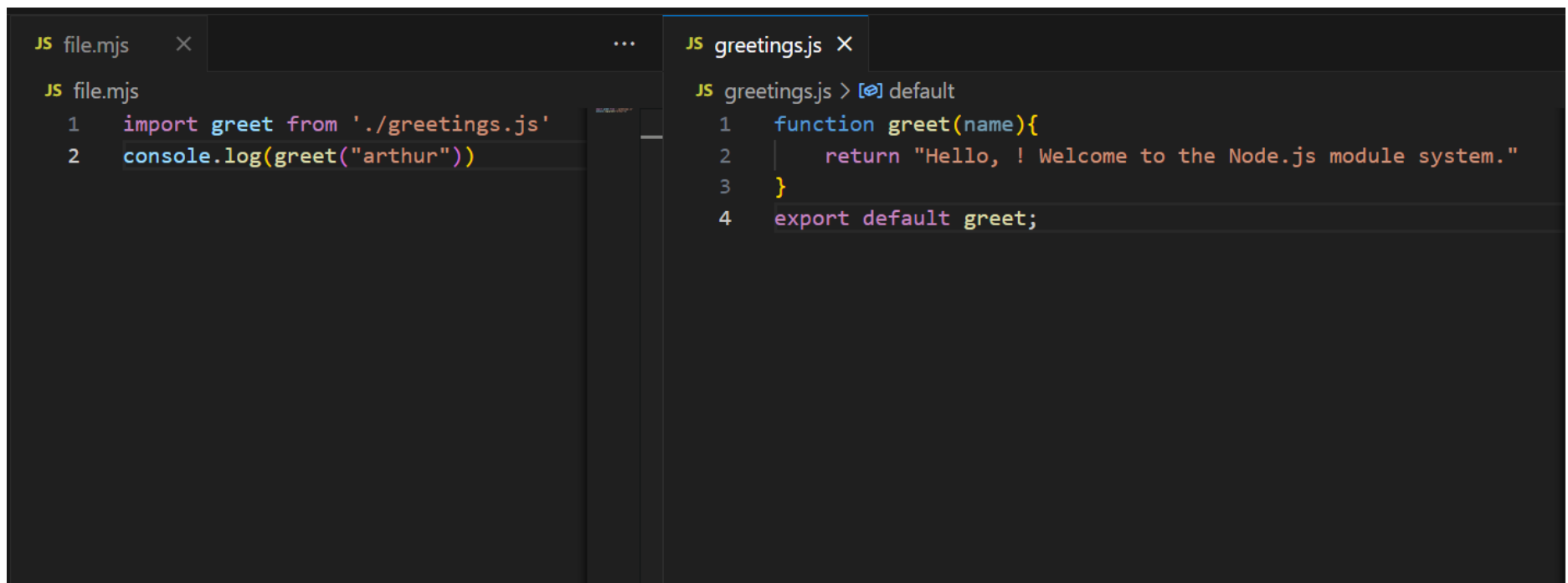
1. Create a `greetings.js` Module

- Write a function `greet(name)` that returns: "Hello, ! Welcome to the Node.js module system."

- Export the function as a module.

Ans:

```js
// file.mjs
1  import greet from './greetings.js'
2  console.log(greet("arthur"))
```
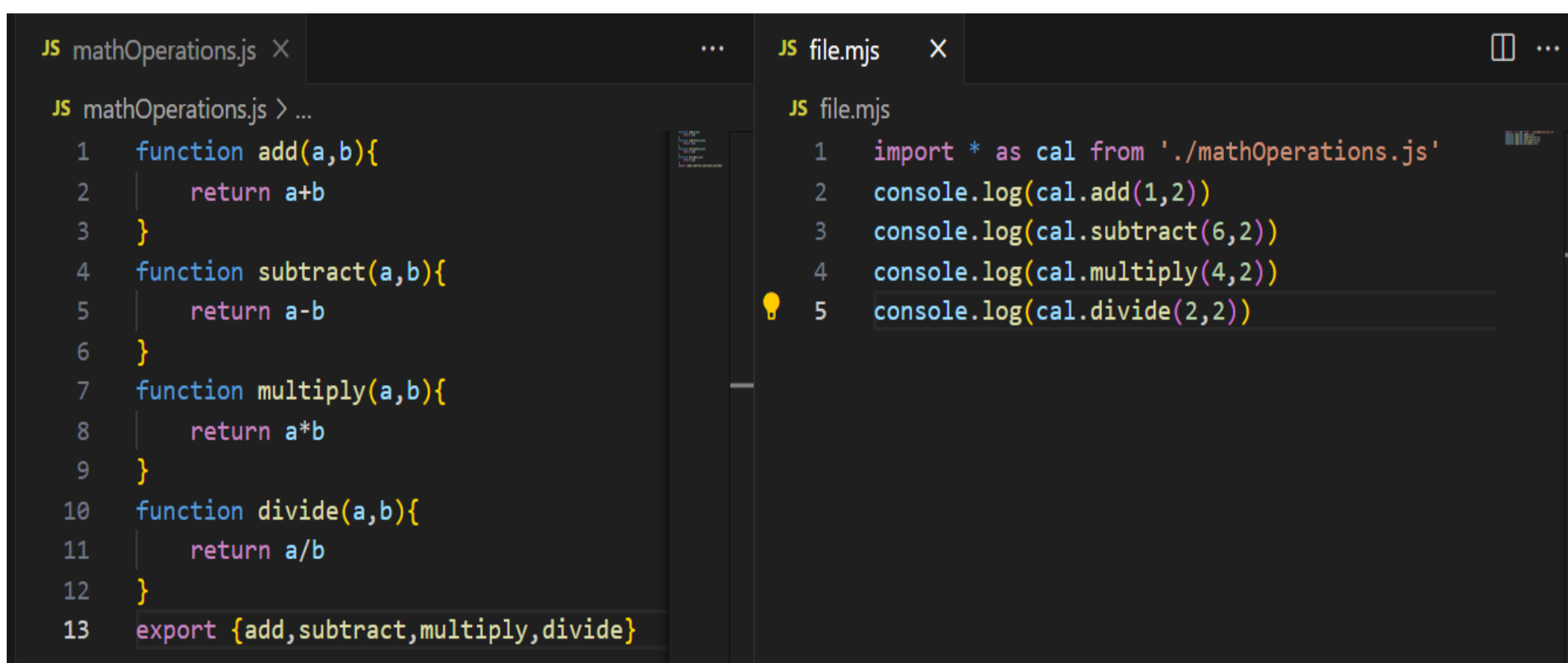
```js
// greetings.js > default
1  function greet(name){
2      return "Hello, ! Welcome to the Node.js module system."
3  }
4  export default greet;
```

2. Create a `mathOperations.js` Module

- Write and export the following functions:

- `add(a, b)` - returns the sum of two numbers.

- `subtract(a, b)` - returns the difference between two numbers.

- `multiply(a, b)` - returns the product of two numbers.

- `divide(a, b)` - returns the quotient of two numbers.

Ans:

```js
// mathOperations.js
1   function add(a,b){
2       return a+b
3   }
4   function subtract(a,b){
5       return a-b
6   }
7   function multiply(a,b){
8       return a*b
9   }
10  function divide(a,b){
11      return a/b
12  }
13  export {add,subtract,multiply,divide}
```

```js
// file.mjs
1  import * as cal from './mathOperations.js'
2  console.log(cal.add(1,2))
3  console.log(cal.subtract(6,2))
4  console.log(cal.multiply(4,2))
5  console.log(cal.divide(2,2))
```

3. Create a `main.js` File

 - Import both `greetings.js` and `mathOperations.js`.

- Use `greet(name)` to greet a user.

 - Perform all four math operations and log the results

Ans:

```js
// mathOperations.js
function add(a,b){
    return a+b
}
function subtract(a,b){
    return a-b
}
function multiply(a,b){
    return a*b
}
function divide(a,b){
    return a/b
}
export {add,subtract,multiply,divide}
```

```js
// greetings.js
function greet(name){
    return "Hello, ! Welcome to the Node.js module system."
}
export default greet;
```

```js
// main.js
import greet from './greetings.js'
console.log(greet("arthur"))

import * as cal from './mathOperations.js'
console.log(cal.add(10,10))
console.log(cal.subtract(16,6))
console.log(cal.multiply(5,15))
console.log(cal.divide(20,10))
```

```
PS C:\Users\Abhinav\OneDrive\Desktop\new> node .\main.js
Hello, ! Welcome to the Node.js module system.
20
10
75
2
PS C:\Users\Abhinav\OneDrive\Desktop\new>
```