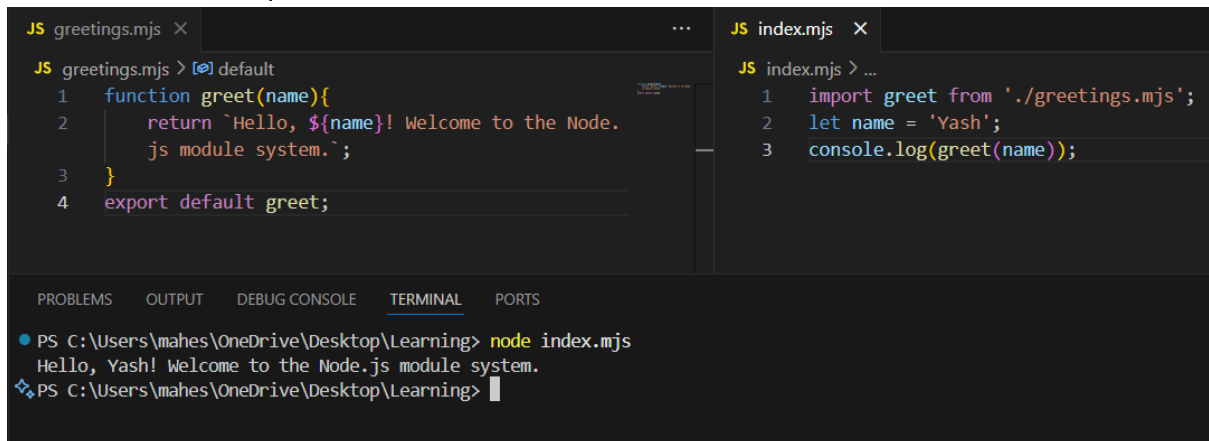1. Create a `greetings.js` Module –
   - Write a function `greet(name)` that returns: "Hello, ! Welcome to the Node.js module system."
   - Export the function as a module

```js
function greet(name){
    return `Hello, ${name}! Welcome to the Node.
    js module system.`;
}
export default greet;
```
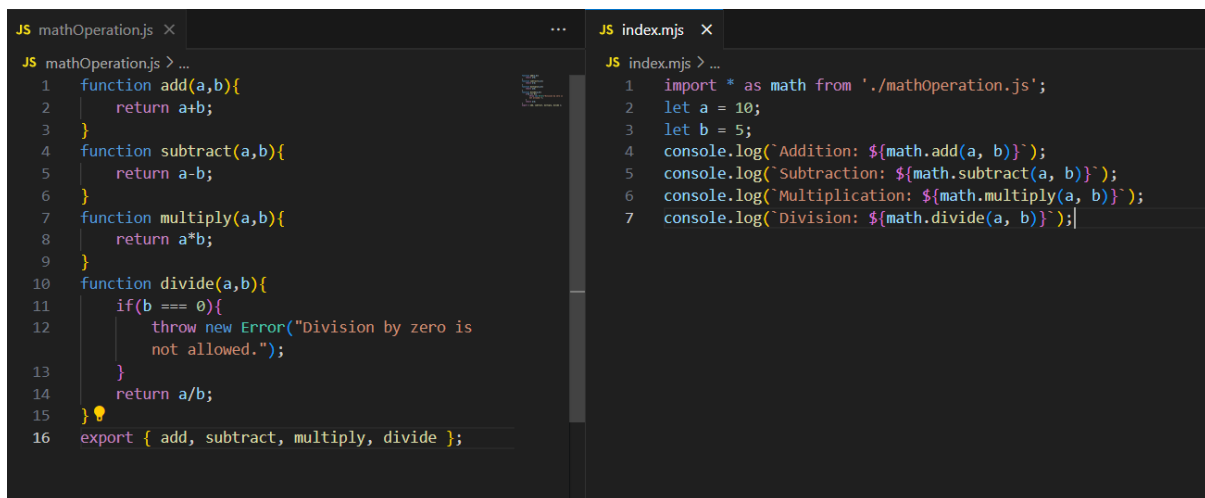
```js
import greet from './greetings.mjs';
let name = 'Yash';
console.log(greet(name));
```

```
PS C:\Users\mahes\OneDrive\Desktop\Learning> node index.mjs
Hello, Yash! Welcome to the Node.js module system.
PS C:\Users\mahes\OneDrive\Desktop\Learning>
```

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.

```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){
    if(b === 0){
        throw new Error("Division by zero is
        not allowed.");
    }
    return a/b;
}
export { add, subtract, multiply, divide };
```

```js
import * as math from './mathOperation.js';
let a = 10;
let b = 5;
console.log(`Addition: ${math.add(a, b)}`);
console.log(`Subtraction: ${math.subtract(a, b)}`);
console.log(`Multiplication: ${math.multiply(a, b)}`);
console.log(`Division: ${math.divide(a, b)}`);
```

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.

mathOperation.js

```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){
    if(b === 0){
        throw new Error("Division
        by zero is not allowed.");
    }
    return a/b;
}
export { add, subtract, multiply,
divide };
```

index.mjs

```js
import * as math from './mathOperation.
js';
import greet from './greeting.mjs';

let name = 'Yash';
console.log(greet(name));

let a = 10;
let b = 5;
console.log(`Addition: ${math.add(a, b)}
`);
console.log(`Subtraction: ${math.subtract
(a, b)}`);
console.log(`Multiplication: ${math.
multiply(a, b)}`);
console.log(`Division: ${math.divide(a,
b)}`);
```

greeting.mjs

```js
function greet(name) {
    return `Hello, ${name}!
    Welcome to the Node.js
    module system.`;
}
```