Node.js Custom Module Assignment

1. greetings.js Module

This module contains a function greet(name) which returns a customized welcome message.

Below is the code implementation:

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

module.exports = greet;
```

2. mathOperations.js Module

This module contains four basic arithmetic operations. Below is the code implementation:

```javascript
// 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) {
    if (b === 0) {
        return "Error: Division by zero.";
    }
    return a / b;
}

module.exports = { add, subtract, multiply, divide };
```

3. main.js File

This file imports the other two modules and demonstrates the usage of each exported function.

Here is the implementation of the main.js file:

```javascript
// main.js
```

```javascript
const greet = require('./greetings');
const math = require('./mathOperations');

console.log(greet("Priyanshu"));

console.log("Add: ", math.add(10, 5));
console.log("Subtract: ", math.subtract(10, 5));
console.log("Multiply: ", math.multiply(10, 5));
console.log("Divide: ", math.divide(10, 5));
```