

NodeJs Assignment

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Section – C

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.

```
greetings.js

// greetings.js

function greet(name) {

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

}

module.exports = 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.

```
mathOperations.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) {
```

```
  if (b === 0) {
```

```
    return "Cannot divide by zero";
```

```
  }
```

```
  return a / b;
```

```
}
```

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

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.

```
main.js

// main.js

const greet = require('./greetings');

const math = require('./mathOperations');


const name = 'Rahul';

console.log(greet(name));


const a = 20, b = 5;

console.log(`Add: ${math.add(a, b)}`);

console.log(`Subtract: ${math.subtract(a, b)}`);

console.log(`Multiply: ${math.multiply(a, b)}`);

console.log(`Divide: ${math.divide(a, b)}`);
```

Thank You

