

NODE JS ASSIGNMENT – 1 SOLUTION

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

```
module.exports = greet;
```

```
// 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,  
};
```

```
// main.js
```

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

```
// Greet user
```

```
const userName = 'Krishna';  
console.log(greet(userName));
```

```
// Math operations
```

```
const a = 10;  
const 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)}`);
```