Functions - Rest Parameters, Object & Array Handling

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4 1. Function Parameters vs Arguments
```

```
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function add(a, b) { // a and b are called parameters

return a + b;
}

add(2, 3); // 2 and 3 are arguments
```

2. Return Single Value from Function

```
js
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function calculateCartPrice(num1) {
  return num1;
}
```

console.log(calculateCartPrice(2)); // 2

It just returns the first value passed to it.

3. Rest Parameters (...num1)

```
js
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function calculateCartPrice(...num1) {
  return num1;
}
```

console.log(calculateCartPrice(200, 400, 600)); // [200, 400, 600]

Rest parameter collects multiple values into an array.

4. Rest After Specific Parameters

```
js
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function calculateCartPrice(val1, val2, ...num1) {
return num1;
}
console.log(calculateCartPrice(200, 400, 600)); // [600]
★ First 2 values go to val1 and val2, rest go to num1.
5. Passing Object to Function
js
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const user = {
username: "pranay",
price: 199
};
function handleObject(anyObject) {
console.log(`Username is ${anyObject.username} and price is ${anyObject.price}`);
}
handleObject(user);
✓ You can also pass object directly:
js
CopyEdit
handleObject({ username: "codeguy", price: 399 });
6. Passing Array to Function
js
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const myNewArray = [200, 400, 600, 800];
```

```
function returnSecondValue(getArray) {
return getArray[1];
}
```

console.log(returnSecondValue(myNewArray)); // 400

You can access array values using index inside function.

Real Life Example:

- Imagine you're buying items on Amazon:
 - calculateCartPrice(199, 299, 399) → All prices go in a cart (array).
 - handleObject({ username: "John", price: 999 }) → Represents a user checking out.