

DWA_03.4 Knowledge Check_DWA3.1

1. Please show how you applied a Markdown File to a piece of your code.

Script.js Documentation

Overview

This script demonstrates functions for addition, multiplication, and a calculation that combines these operations using an object with internal properties.

Key Features

- TypeScript Support: The script uses the `@ts-check` directive to enable type checking, ensuring code quality and catching potential errors.
- Clear Function Documentation: JSDoc comments are used to describe the purpose, parameters, and return values of each function, enhancing readability and maintainability.
- Demonstration of Calculation Logic: The `internal` function showcases how to combine multiple functions to perform a more complex calculation.

Code Structure

1. Functions:
 - `add(a, b)`: Adds two numbers and returns the sum.
 - `multiply(a, b)`: Multiplies two numbers and returns the product.
 - `internal()`: Performs a calculation using the `add` and `multiply` functions on values within an object's internal properties.
2. Type Definitions:
 - `Internal`: A `typedef` defining an object structure with three numeric properties: `a`, `b`, and `c`.

2. Please show how you applied JSDoc Comments to a piece of your code.

```
/**
 * Adds two numbers together
 * @param {number} a
 * @param {number} b
 * @returns {number}
 */

function add (a,b) { return a + b }
```

3. Please show how you applied the @ts-check annotation to a piece of your code.

```
// @ts-check
```

4. As a BONUS, please show how you applied any other concept covered in the 'Documentation' module.

```
/**
 * @typedef {object} Internal - An object that has 3 numbers
 * @property {number} internal.a
 * @property {number} internal.b
 * @property {number} internal.c
 */
```

```
/**
 * @type {Internal}
 * @property {number} a
 * @property {number} b
 * @property {number} c
 */
```

```
internal: {  
  a: 2,  
  b: 4,  
  c: 8,  
},
```
