

DWA_03.4 Knowledge Check_DWA3.1

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



```
1 //This imports the the const variables from the data.js file
2 import {authors, genres, books , BOOKS_PER_PAGE} from './data.js'
```

Importing Data

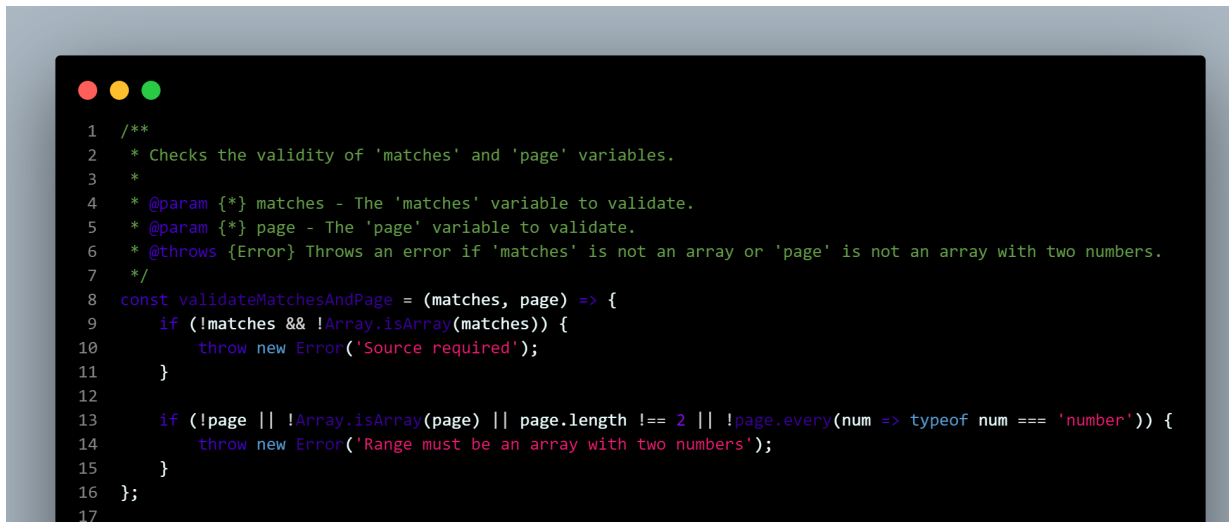
This code imports constants and variables from the data.js file to work with. It includes authors, genres, books, and the number of books per page.

```
```javascript
```

```
import { authors, genres, books, BOOKS_PER_PAGE } from './data.js'
```

---

## 2. Please show how you applied JS

A screenshot of a code editor with a dark background and light-colored text. The code is a JavaScript function named `validateMatchesAndPage`. It has a JSDoc comment block at the top, followed by the function definition. The JSDoc comment includes a description, parameter tags for `matches` and `page`, and a `@throws` tag. The function body contains two conditional checks: one for `matches` and one for `page`.

```
1 /**
2 * Checks the validity of 'matches' and 'page' variables.
3 *
4 * @param {*} matches - The 'matches' variable to validate.
5 * @param {*} page - The 'page' variable to validate.
6 * @throws {Error} Throws an error if 'matches' is not an array or 'page' is not an array with two numbers.
7 */
8 const validateMatchesAndPage = (matches, page) => {
9 if (!matches && !Array.isArray(matches)) {
10 throw new Error('Source required');
11 }
12
13 if (!page || !Array.isArray(page) || page.length !== 2 || !page.every(num => typeof num === 'number')) {
14 throw new Error('Range must be an array with two numbers');
15 }
16 };
17
```

Doc Comments to a piece of your code.

I've added a JSDoc comment block to the `validateMatchesAndPage` function.

The `@param` tags describe the parameters `matches` and `page`.

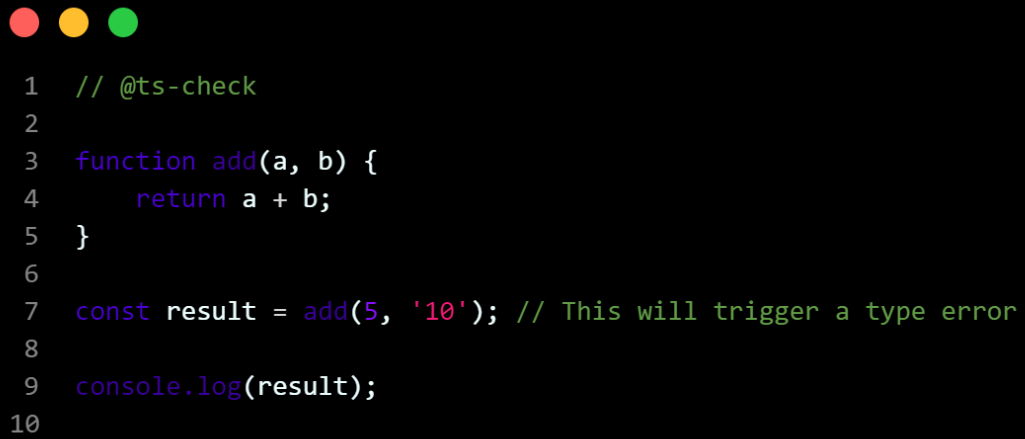
The `@throws` tag specifies that an error will be thrown if the conditions are not met.

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

I added the `// @ts-check` directive at the beginning of the file to enable TypeScript type checking. It will help me catch type-related errors during development.

When I added the `// @ts-check` to my javascript file from my IWA19 it threw multiple errors in the code so instead made an example of how I could use it, this example shows how I'm attempting to add a number and a string in the `add(5, '10')` call, which would cause a type error.



```
1 // @ts-check
2
3 function add(a, b) {
4 return a + b;
5 }
6
7 const result = add(5, '10'); // This will trigger a type error
8
9 console.log(result);
10
```

---

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

In this example i applied proper JsDoc to a function



```
1 /**
2 * Adds two numbers together.
3 *
4 * This function takes two numbers and returns their sum.
5 *
6 * @param {number} a - The first number.
7 * @param {number} b - The second number.
8 * @returns {number} The sum of a and b.
9 */
10 function add(a, b) {
11 return a + b;
12 }
13
14 const result = add(5, 10);
15
16 console.log(result);
17
```