

DWA_03.4 Knowledge Check_DWA3.1

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

```
IWA1 > ⓘ README.md
1 Tally Count App
2
3 This app is designed to be a simple counting, that goes up and down in
4 increments of 5. It's simple and straightforward, and should be seen as a
5 beginner exercise. It's an example of how to use JavaScript in order to add
6 interactivity to your app.
7
8 Features:
9
10 - Simple and user-friendly
11 - Fun exercise
12 - Minimal functionality
13
14 What you'll need:
15
16 - An IDE, like Visual Studio Code (https://code.visualstudio.com/)
17 - Basic HTML, CSS, and JavaScript Skills (https://www.freecodecamp.org/learn/)
18 - A browser, like Microsoft Edge (https://www.microsoft.com/en-us/edge/download?form=MA13FJ)
19
20 Getting Started:
21
22 Follow along with this video: https://www.youtube.com/watch?v=kG6hCw9mIFQ&t=349s
23
```

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

```
33
34  /**
35   * @param {number} dividend - The number being divided
36   * @param {number} [divider] - The number dividing the dividend
37   * @param {number} result - The result of the division
38   */
39
40  form.addEventListener("submit", (event) => {
41    event.preventDefault();
42
43    try{
44      const entries = new FormData(event.target);
45      const { dividend, divider } = Object.fromEntries(entries);
46
47      if (!dividend || !divider) {
48        result.innerText = 'Division not performed. Both values are required in inputs. Try again'
49        throw new error ('Division not performed. Both values are required in inputs. Try again')
50      }
51    }
52
53    if ((dividend<0) || (divider<=0)) {
54
55
56
57      result.innerText = 'Division not performed. Invalid number provided. Try again'
58      throw new error ('Division not performed. Invalid number provided. Try again')
59    }
60  }
61
62  if ( (Number.isNaN(Number(dividend)) ) || (Number.isNaN(Number(divider))) ) {
63
64    result.innerText = 'Something critical went wrong. Please reload the page'
65    console.error ('Something critical went wrong. Please reload the page')
66  }
67
68
69  result.innerText = Math.floor(dividend / divider);
```

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

The screenshot shows the Visual Studio Code editor interface. The sidebar on the left contains the Explorer view, which shows a project structure with files like 'scripts.js', 'DWA6-base-project-files', and 'challenge1'. The main editor area displays the content of 'challenge1.js'. The code is a JavaScript file that defines a function 'form.addEventListener' to handle form submissions. It includes comments in Chinese and JavaScript logic for form validation, such as checking if the 'dividend' and 'divider' fields are non-empty and valid numbers. The code is as follows:

```
32  //
33
34  // @ts-check
35
36  /**
37   * @param {number} dividend - The number being divided
38   * @param {number} [divider] - The number dividing the dividend
39   * @param {number} result - The result of the division
40   */
41
42  form.addEventListener("submit", (event) => {
43    event.preventDefault();
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45    try{
46      const entries = new FormData(event.target);
47      const { dividend, divider } = Object.fromEntries(entries);
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49      if (!dividend || !divider) {
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51        result.innerText = 'Division not performed. Both values are required in inputs. Try again'
52        throw new error ('Division not performed. Both values are required in inputs. Try again')
53      }
54
55      if ((dividend<0) || (divider<=0)) {
56
57        result.innerText = 'Division not performed. Invalid number provided. Try again'
58        throw new error ('Division not performed. Invalid number provided. Try again')
59      }
60
61      if ( (Number.isNaN(Number(dividend))) || (Number.isNaN(Number(divider))) ) {
62
63        result.innerText = 'Something critical went wrong. Please reload the page'
64        console.error ('Something critical went wrong. Please reload the page')
65      }
66
67      result.innerText = 'Something critical went wrong. Please reload the page'
68      console.error ('Something critical went wrong. Please reload the page')
```

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