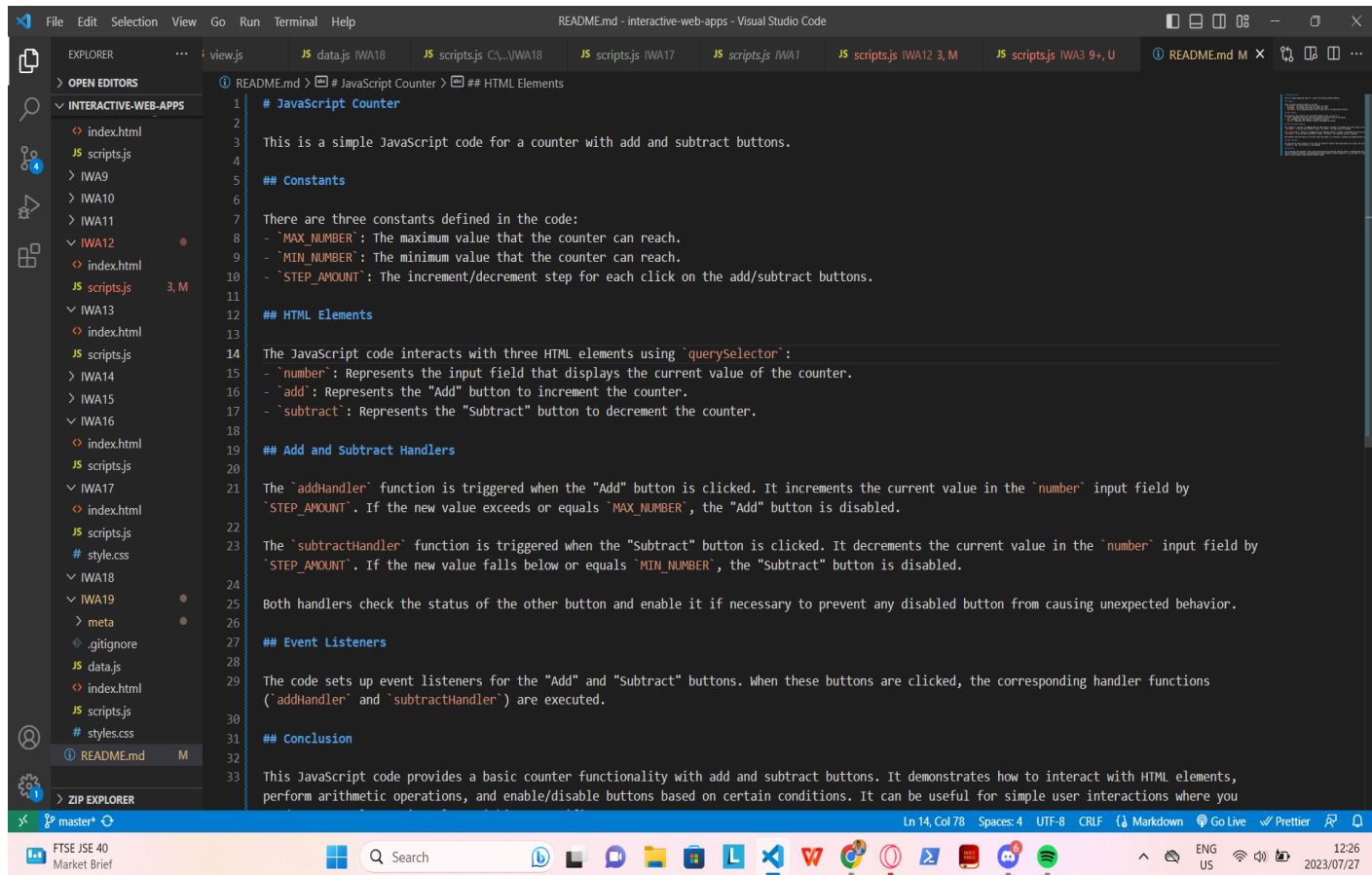


# DWA\_03.4 Knowledge Check\_DWA3.1

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

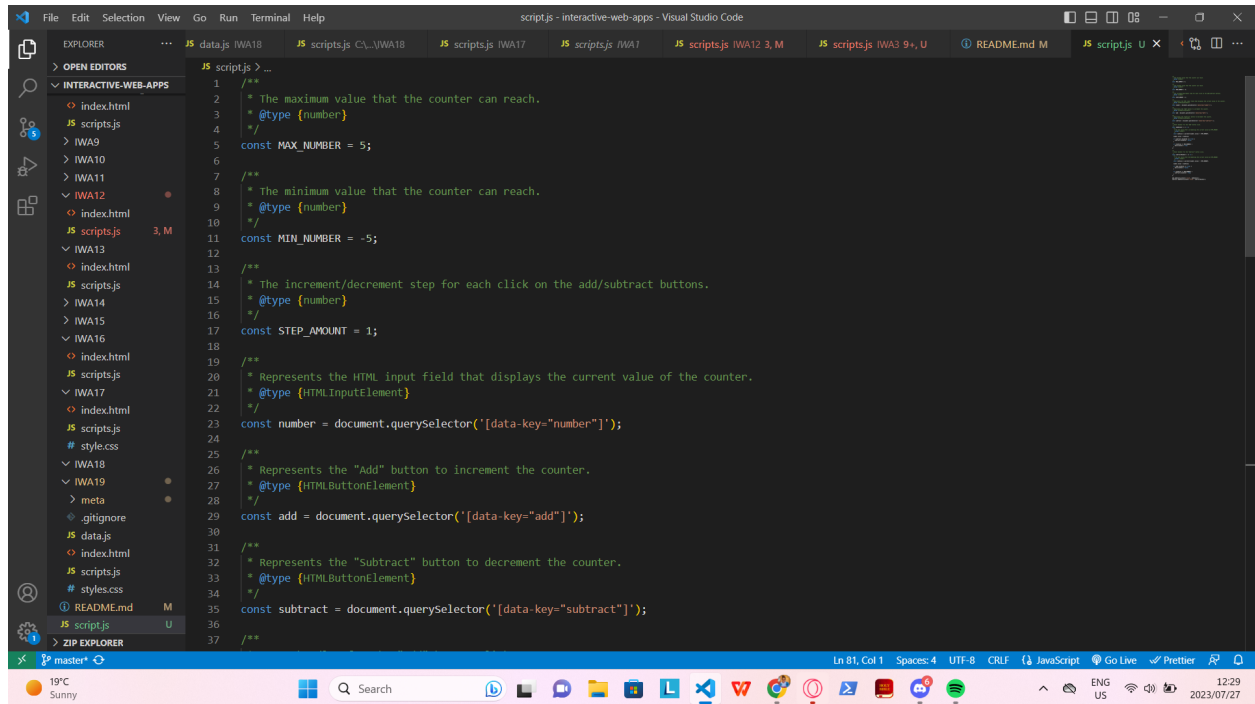


The screenshot shows the Visual Studio Code interface with a README.md file open. The file is titled "# JavaScript Counter" and contains the following content:

```
1 # JavaScript Counter
2
3 This is a simple JavaScript code for a counter with add and subtract buttons.
4
5 ## Constants
6
7 There are three constants defined in the code:
8 - `MAX_NUMBER`: The maximum value that the counter can reach.
9 - `MIN_NUMBER`: The minimum value that the counter can reach.
10 - `STEP_AMOUNT`: The increment/decrement step for each click on the add/subtract buttons.
11
12 ## HTML Elements
13
14 The JavaScript code interacts with three HTML elements using `querySelector`:
15 - `number`: Represents the input field that displays the current value of the counter.
16 - `add`: Represents the "Add" button to increment the counter.
17 - `subtract`: Represents the "Subtract" button to decrement the counter.
18
19 ## Add and Subtract Handlers
20
21 The `addHandler` function is triggered when the "Add" button is clicked. It increments the current value in the `number` input field by
22 `STEP_AMOUNT`. If the new value exceeds or equals `MAX_NUMBER`, the "Add" button is disabled.
23
24 The `subtractHandler` function is triggered when the "Subtract" button is clicked. It decrements the current value in the `number` input field by
25 `STEP_AMOUNT`. If the new value falls below or equals `MIN_NUMBER`, the "Subtract" button is disabled.
26
27 Both handlers check the status of the other button and enable it if necessary to prevent any disabled button from causing unexpected behavior.
28
29 ## Event Listeners
30
31 The code sets up event listeners for the "Add" and "Subtract" buttons. When these buttons are clicked, the corresponding handler functions
32 (`addHandler` and `subtractHandler`) are executed.
33
34 ## Conclusion
35
36 This JavaScript code provides a basic counter functionality with add and subtract buttons. It demonstrates how to interact with HTML elements,
37 perform arithmetic operations, and enable/disable buttons based on certain conditions. It can be useful for simple user interactions where you
```

The status bar at the bottom indicates the current position is Line 14, Column 78, with 4 spaces, UTF-8 encoding, and CRLF line endings. The file is in Markdown format, and the Prettier extension is active.

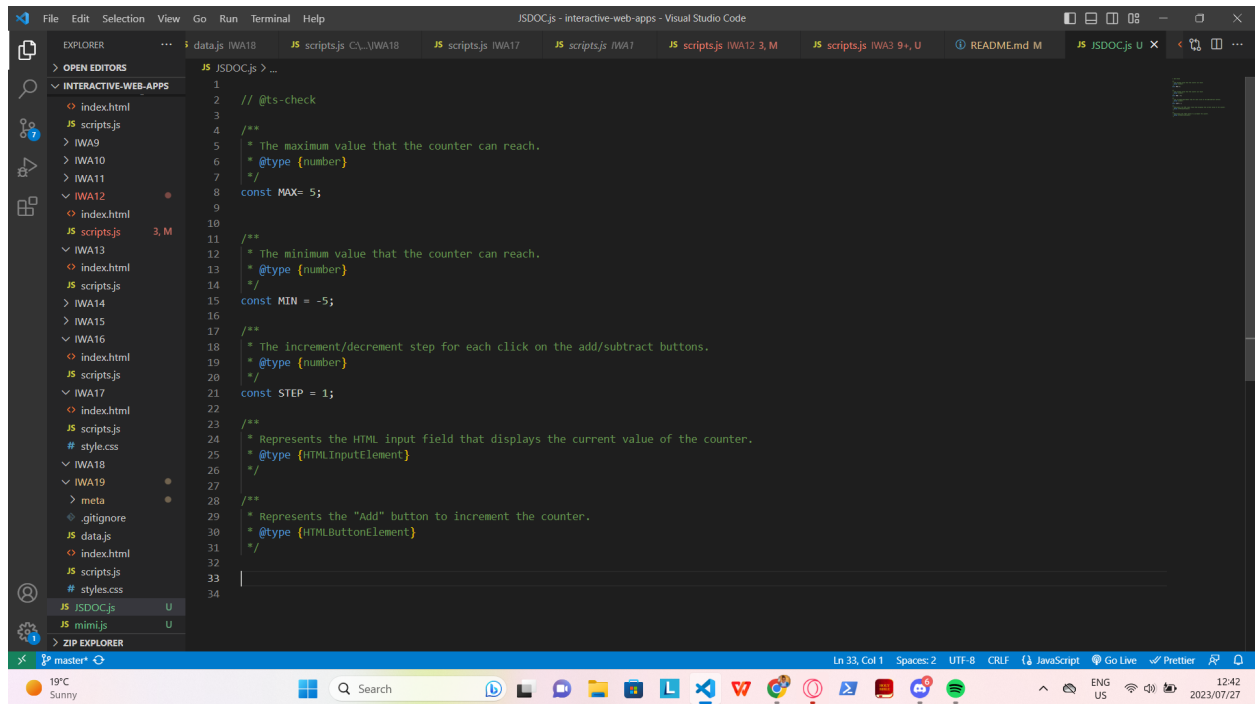
2. Please show how you applied JSDoc Comments to a piece of your code.



The screenshot shows the Visual Studio Code editor with a JavaScript file named 'script.js' open. The file contains several JSDoc comments and code snippets. The comments are used to describe variables and functions, including their types and purposes. The code snippets include constants for maximum and minimum values, a step amount, and selectors for HTML elements.

```
1  /**  
2   * The maximum value that the counter can reach.  
3   * @type {number}  
4   */  
5  const MAX_NUMBER = 5;  
6  
7  /**  
8   * The minimum value that the counter can reach.  
9   * @type {number}  
10  */  
11  const MIN_NUMBER = -5;  
12  
13  /**  
14   * The increment/decrement step for each click on the add/subtract buttons.  
15   * @type {number}  
16   */  
17  const STEP_AMOUNT = 1;  
18  
19  /**  
20   * Represents the HTML input field that displays the current value of the counter.  
21   * @type {HTMLInputElement}  
22   */  
23  const number = document.querySelector('[data-key="number"]');  
24  
25  /**  
26   * Represents the "Add" button to increment the counter.  
27   * @type {HTMLButtonElement}  
28   */  
29  const add = document.querySelector('[data-key="add"]');  
30  
31  /**  
32   * Represents the "Subtract" button to decrement the counter.  
33   * @type {HTMLButtonElement}  
34   */  
35  const subtract = document.querySelector('[data-key="subtract"]');  
36  
37  /**
```

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



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

FileEditSelectionViewGoRunTerminalHelp

README.md - interactive-web-apps - Visual Studio Code

EXPLORER

INTERACTIVE-WEB-APPS

IWA10

IWA11

IWA12

index.html

scripts.js3, M

IWA13

index.html

scripts.js

IWA14

IWA15

IWA16

index.html

scripts.js

IWA17

index.html

scripts.js

style.css

IWA18

IWA19

meta

gitignore

data.js

index.html

scripts.js

styles.css

JSDOC.jsU

mimi.jsU

README.mdM

script.jsU

ZIP EXPLORER

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# JavaScript Counter

This is a simple JavaScript code for a counter with add and subtract buttons.

## Constants

Constant	Description	Value
MAX_NUMBER	The maximum value that the counter can reach.	5
MIN_NUMBER	The minimum value that the counter can reach.	-5
STEP_AMOUNT	The increment/decrement step for the counter.	1

...

Ln 15, Col 1

Spaces: 4

UTF-8

CRLF

Markdown

Go Live

Prettier

19°C

Sunny

Search

12:48

2023/07/27