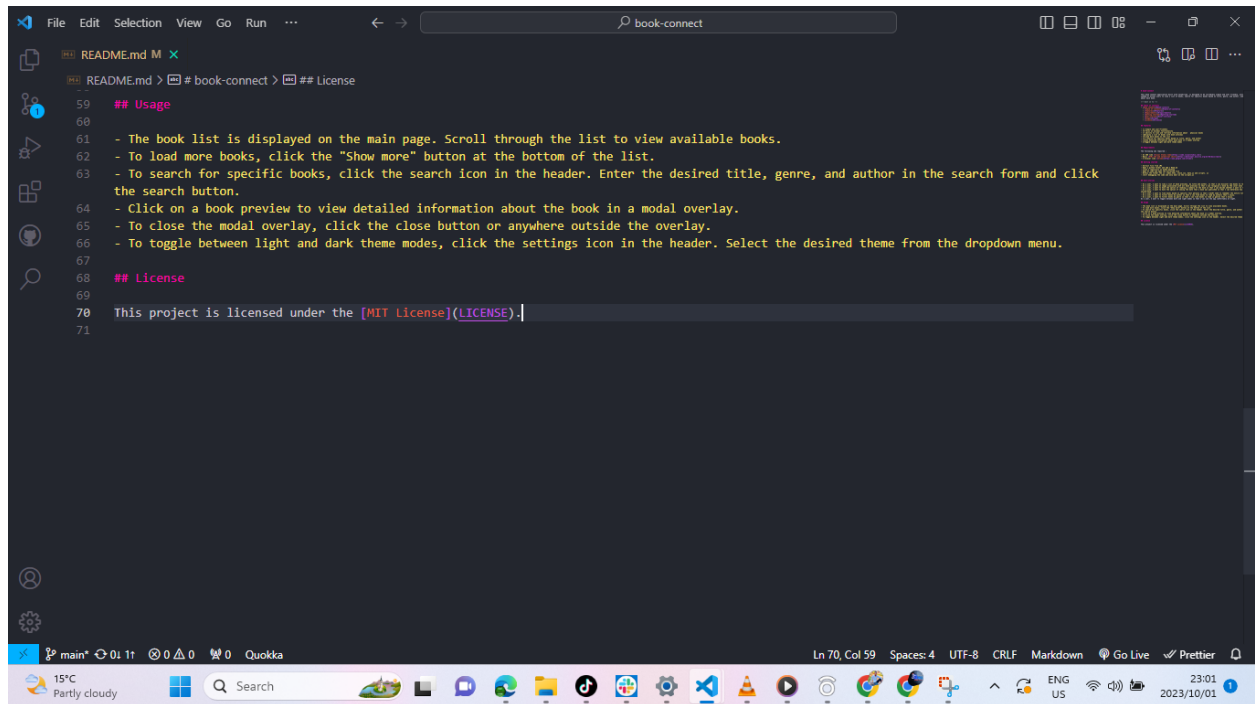


DWA_03.4 Knowledge Check_DWA3.1

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

```
File Edit Selection View Go Run ... book-connect
README.md M X
README.md > # book-connect > ## License
1 # book-connect
2
3 This book connect application built with JavaScript, is designed to be incredibly simple and user friendly, providing minimal functionality
4 needed. It allows users to view a list of books, search for specific books based on title, genre, and author, and view detailed information
5 about each book.
6
7 <!--omit in to -->
8
9 ## Table of contents
10 - [Book connect](#book-connect)
11 - [Table of contents](#table-of-contents)
12 - [features](#features)
13 - [Requirements](#requirements)
14 - [Getting started](#getting-started)
15 - [User-stories](#user-stories)
16 - [Usage](#usage)
17 - [License](#license)
18
19 ## features
20 - ❤️ Simple and user-friendly
21 - 🧠 Focus on minimal functionality
22 - 📖 ability to scan and retrieve information about physical books
23 - 📖 Display a list of books with book previews
24 - 📖 Load more books on the list
25 - 🔍 Search for specific books based on title, genre, and author
26 - 📖 View detailed information about each book in a modal overlay
27 - ✓ Toggle between light and dark theme modes
28
29
30 ## Requirements
31
32 The following ids required :
33
34 - An IDE like [Visual Studio Code](https://code.visualstudio.com/)
35 - Basic [HTML,CSS and JavaScript skills](https://developer.mozilla.org/en-US/docs/learn)
36 - A browser like [Chrome](https://www.google.com/chrome/)
37
38 ## Getting started
39
40 - Extract file from LMS
41 - Open a github folder and add a Read.me
42 - Clone a repository on GitHub desktop
43 - Open Vs code and open the extracted file
44 - Within the folder the is: index.html, style.css, data.js and scripts. js
45 - start debugging the code and only edit on the scripts.js
46
47
48 ## User-stories
49
50 - As a user, I want to view a list of book previews, by title and author, so that I can discover new books to read.
51 - As a user, I want an image associated with all book previews so that I can recognize a book by the cover even if I forgot the name.
52 - As a user, I want to have the option of reading a summary of the book so that I can decide whether I want to read it.
53 - As a user, I want to have the option of seeing the date that a book was published so that I can determine how easy it is to obtain
54 second-hand.
55 - As a user, I want to find books based on specific text phrases so that I don't need to remember the entire title of a book.
56 - As a user, I want to filter books by author so that I can find books to read by authors that I enjoy.
57 - As a user, I want to filter books by genre so that I can find books to read in genres that I enjoy.
58 - As a user, I want to toggle between dark and light modes so that I can use the app comfortably at night.
59
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61 main* 0L 1t 0 0 0 Quokka Ln 70, Col 59 Spaces:4 UTF-8 CRLF Markdown Go Live Prettier
15°C Partly cloudy Search 23:00 2023/10/01
```

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README.md M X
README.md > # book-connect > ## License
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15°C Partly cloudy Search 23:01 2023/10/01
```



The image shows a screenshot of a Visual Studio Code editor window. The editor is open to a file named `README.md` in a directory named `book-connect`. The file content is as follows:

```
59 ## Usage
60
61 - The book list is displayed on the main page. Scroll through the list to view available books.
62 - To load more books, click the "Show more" button at the bottom of the list.
63 - To search for specific books, click the search icon in the header. Enter the desired title, genre, and author in the search form and click the search button.
64 - Click on a book preview to view detailed information about the book in a modal overlay.
65 - To close the modal overlay, click the close button on anywhere outside the overlay.
66 - To toggle between light and dark theme modes, click the settings icon in the header. Select the desired theme from the dropdown menu.
67
68 ## License
69
70 This project is licensed under the [MIT License](LICENSE) |
71
```

The editor interface includes a sidebar on the left with icons for Explorer, Search, and Source Control. The bottom status bar shows the current line and column (Ln 70, Col 59), encoding (UTF-8), line ending (CRLF), and language (Markdown). The Windows taskbar at the bottom displays the date and time as 23:01 on 2023/10/01.

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

```
File Edit Selection View Go Run ... IWA15
JS script.js X
JS script.js > ...
29
30 //@ts-check
31
32 /**
33  * Represents a data object with Lists.
34  * @typedef {object} DataObject
35  * @property {Array<Array<string | number[]>>} Lists - the Lists of data.
36  */
37
38 /**
39  * Extracts the biggest number from the Lists
40  * @returns {number} The biggest number from the Lists
41  */
42
43 const extractBiggest = () => {
44   let firstValue = first[first.length - 1]
45   let secondValue = second[second.length - 1]
46   let thirdValue = third[third.length - 1]
47
48   const biggest = Math.max(firstValue // 0, secondValue // 0, thirdValue // 0)
49
50   if(firstValue == biggest) {
51     return first.pop()
52   } else if (secondValue == biggest){
53     return second.pop()
54   } else{
55     return third.pop()
56   }
57 }
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3. Please show how you applied the @ts-check annotation to a piece of your code.

A screenshot of the Visual Studio Code (VS Code) integrated development environment. The main editor window displays a JavaScript file named 'script.js'. The code includes JSDoc comments describing a function 'extractBiggest' which takes three arrays of numbers as input and returns the largest number. The function implementation uses array destructuring, pop() method, and Math.max() to find the maximum value. The status bar at the bottom shows 'Ln 40, Col 55', 'Tab Size: 4', 'UTF-8', 'CRLF', 'JavaScript', 'Go Live', and 'Prettier'. The system tray at the very bottom indicates the temperature is 13°C, it's partly cloudy, and the date/time is 2023/10/02 00:17.

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

