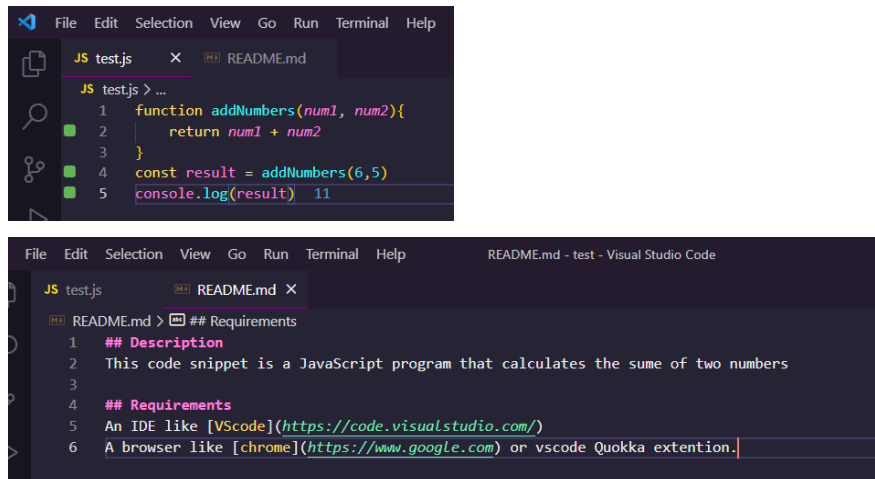


DWA_03.4 Knowledge Check_DWA3.1

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



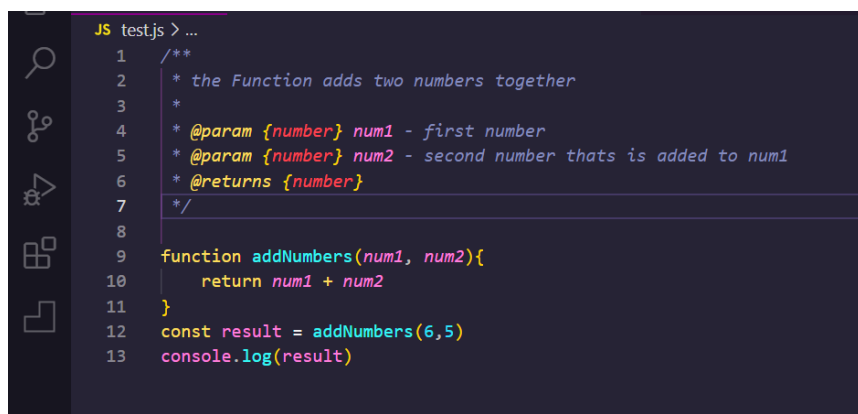
The first screenshot shows a JavaScript file named 'test.js' in Visual Studio Code. The code defines a function 'addNumbers' that takes two parameters, 'num1' and 'num2', and returns their sum. It then calls this function with arguments 6 and 5, storing the result in a variable 'result' and logging it to the console.

```
1 function addNumbers(num1, num2){
2   return num1 + num2
3 }
4 const result = addNumbers(6,5)
5 console.log(result) 11
```

The second screenshot shows the 'README.md' file for the same project. It contains a '## Description' section explaining that the code snippet is a JavaScript program that calculates the sum of two numbers. It also includes a '## Requirements' section listing the tools needed: an IDE like VSCode (with a link) and a browser like Chrome (with a link), or the VSCode Quokka extension.

```
1 ## Description
2 This code snippet is a JavaScript program that calculates the sum of two numbers
3
4 ## Requirements
5 An IDE like [VScode](https://code.visualstudio.com/)
6 A browser like [chrome](https://www.google.com) or vscode Quokka extension.
```

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

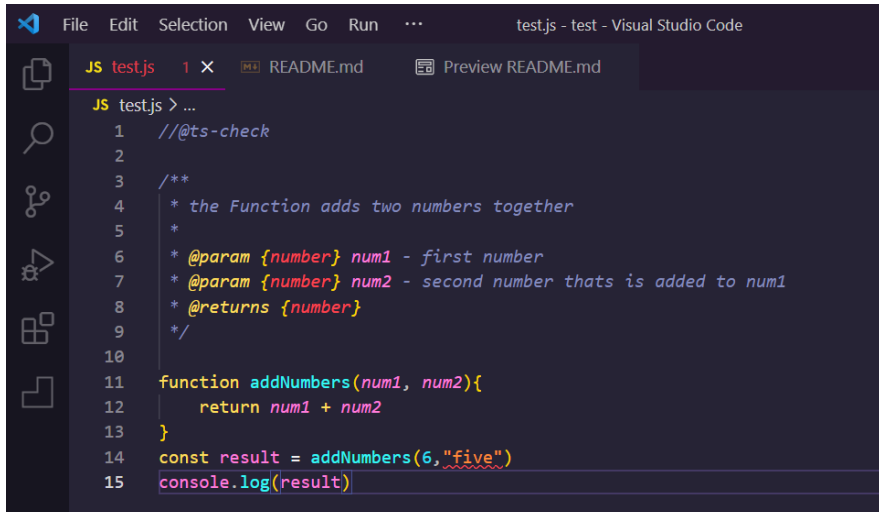


The screenshot shows the same JavaScript code as before, but with JSDoc comments added to the 'addNumbers' function. The comments describe the function's purpose, its parameters, and its return value.

```
1 /**
2  * the Function adds two numbers together
3  *
4  * @param {number} num1 - first number
5  * @param {number} num2 - second number thats is added to num1
6  * @returns {number}
7  */
8
9 function addNumbers(num1, num2){
10   return num1 + num2
11 }
12 const result = addNumbers(6,5)
13 console.log(result)
```

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

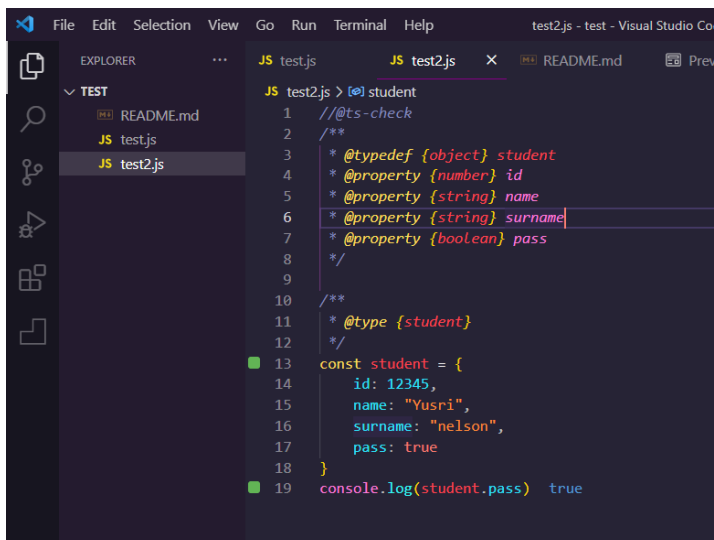
In the code below //@ts-check checks for syntax errors. It underlines the string "five" because I said that it should be a {number} not a {string} in the JSDoc comments.



```
1  //@ts-check
2
3  /**
4   * the Function adds two numbers together
5   *
6   * @param {number} num1 - first number
7   * @param {number} num2 - second number thats is added to num1
8   * @returns {number}
9   */
10
11 function addNumbers(num1, num2){
12     return num1 + num2
13 }
14 const result = addNumbers(6, "five")
15 console.log(result)
```

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

I used JSDoc for the object below ensuring that id is a number only ,name & surname is string, pass is a boolean value



```
1  //@ts-check
2
3  /**
4   * @typedef {object} student
5   * @property {number} id
6   * @property {string} name
7   * @property {string} surname
8   * @property {boolean} pass
9   */
10
11 /**
12  * @type {student}
13  */
14 const student = {
15     id: 12345,
16     name: "Yusri",
17     surname: "nelson",
18     pass: true
19 }
20 console.log(student.pass) true
```

