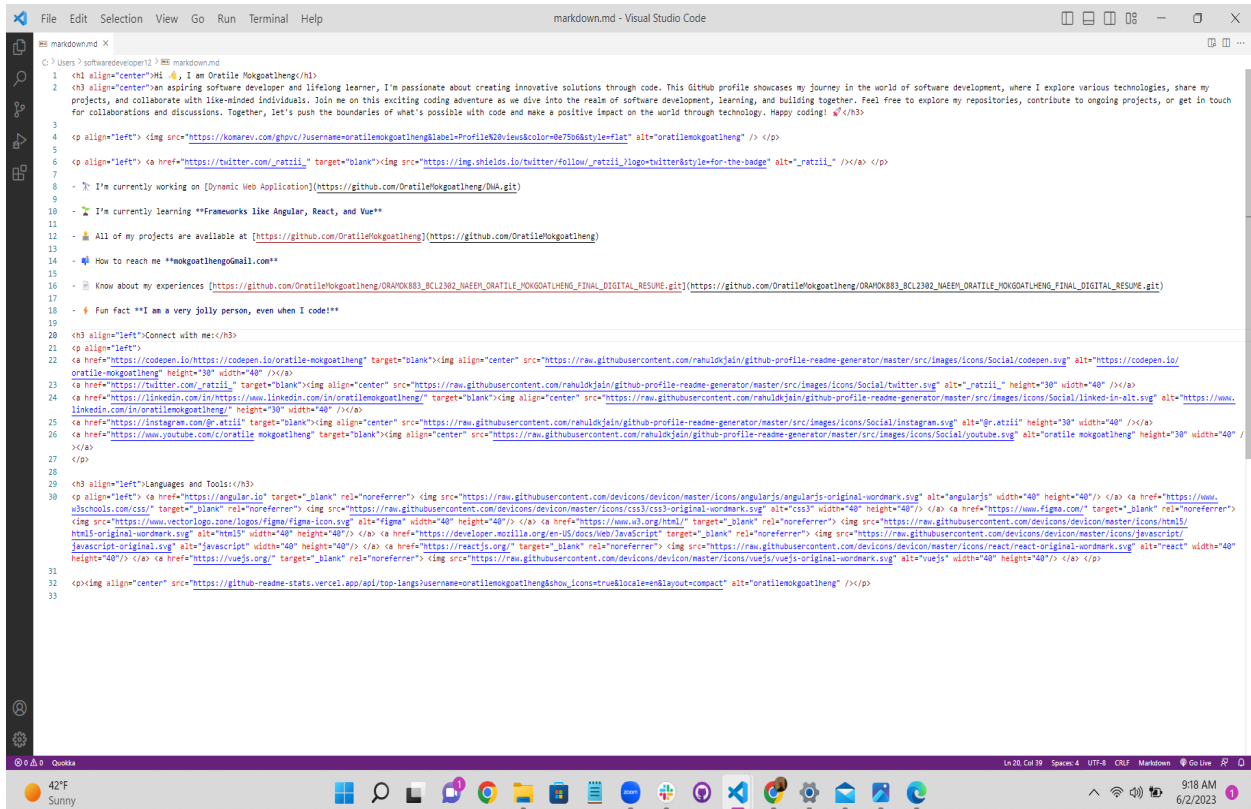


DWA_03.4 Knowledge Check_DWA3.1

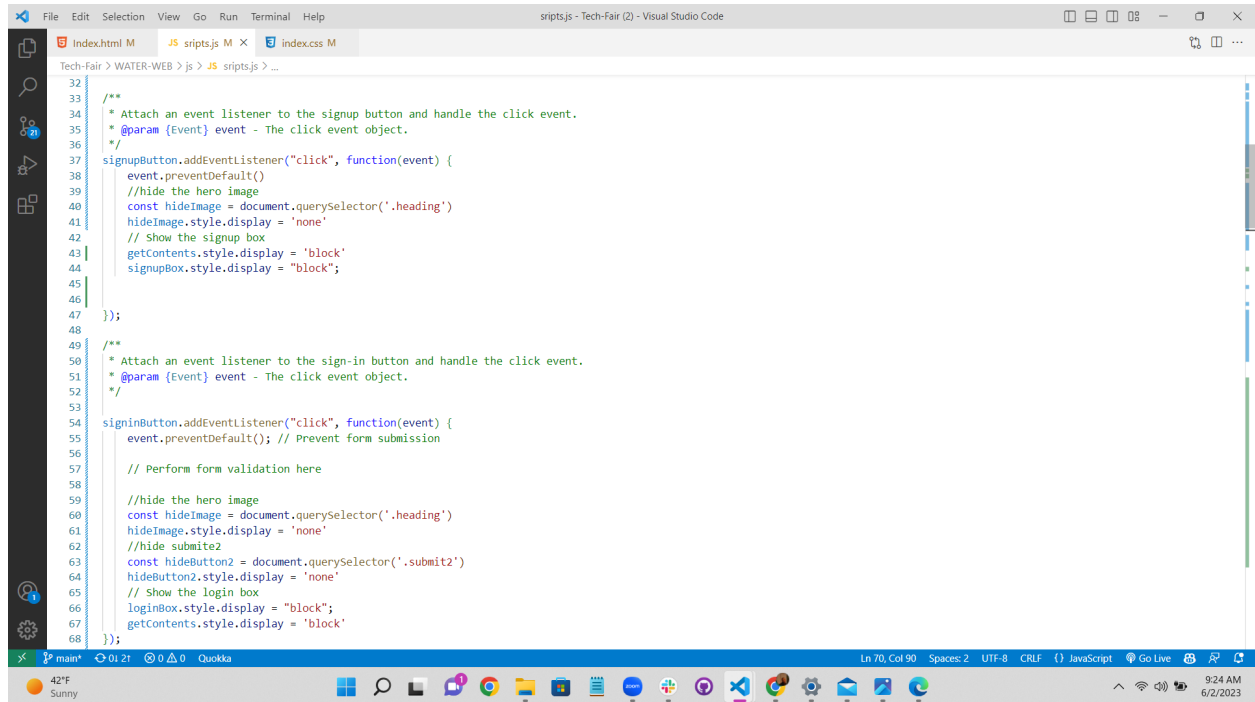
1. Please show how you applied a Markdown File to a piece of your code.



```
1 <h1 align="center">Hi 👋, I am Oratile Mokoatlheng</h1>
2 <h3 align="center">An aspiring software developer and lifelong learner, I'm passionate about creating innovative solutions through code. This GitHub profile showcases my journey in the world of software development, where I explore various technologies, share my
3 projects, and collaborate with like-minded individuals. Join me on this exciting coding adventure as we dive into the realm of software development, learning, and building together. Feel free to explore my repositories, contribute to ongoing projects, or get in touch
4 for collaborations and discussions. Together, let's push the boundaries of what's possible with code and make a positive impact on the world through technology. Happy coding! 🚀</h3>
5
6 <p align="left"></p>
7
8 <p align="left"><a href="https://twitter.com/_ratil_" target="blank"></a></p>
9
10 - 🚧 I'm currently working on [Dynamic Web Application](https://github.com/OratileMokoatlheng/DWA.git)
11
12 - 📖 I'm currently learning **Frameworks like Angular, React, and Vue**
13
14 - 📁 All of my projects are available at [https://github.com/OratileMokoatlheng](https://github.com/OratileMokoatlheng)
15
16 - 📧 How to reach me **mokoatlheng@gmail.com**
17
18 - 📄 Know about my experiences [https://github.com/OratileMokoatlheng/ORAVIDX883_BCL2382_WAEPH_ORATILE_MOKOATLHENG_FINAL_DIGITAL_RESUME.git](https://github.com/OratileMokoatlheng/ORAVIDX883_BCL2382_WAEPH_ORATILE_MOKOATLHENG_FINAL_DIGITAL_RESUME.git)
19
20 - 🎉 Fun fact **I am a very jolly person, even when I code!🤪
```

```
21 <h3 align="left">Connect with me:</h3>
22 <p align="left">
23 <a href="https://codepen.io/https://codepen.io/oratile-mokoatlheng/" target="blank"></a>
24 <a href="https://twitter.com/_ratil_" target="blank"></a>
25 <a href="https://www.linkedin.com/in/https://www.linkedin.com/in/oratilemokoatlheng/" target="blank"></a>
26 <a href="https://www.instagram.com/_ratil_" target="blank"></a>
27 <a href="https://www.youtube.com/c/oratile_mokoatlheng" target="blank"></a>
28 </p>
29
30 <h3 align="left">Languages and Tools:</h3>
31 <p align="left"><a href="https://angular.io/" target="_blank" rel="noopener"></a> <a href="https://www.w3schools.com/css/" target="blank" rel="noopener"></a> <a href="https://www.figma.com/" target="blank" rel="noopener">
32 </a> <a href="https://www.vuetifyjs.com/en-US/docs/web/javascript" target="blank" rel="noopener"></a> <a href="https://developer.mozilla.org/en-US/docs/Web/JavaScript" target="blank" rel="noopener"></a> <a href="https://reactjs.org/" target="blank" rel="noopener"></a> <a href="https://vuejs.org/" target="blank" rel="noopener"></a> </p>
33
34 <p align="center"></p>
```

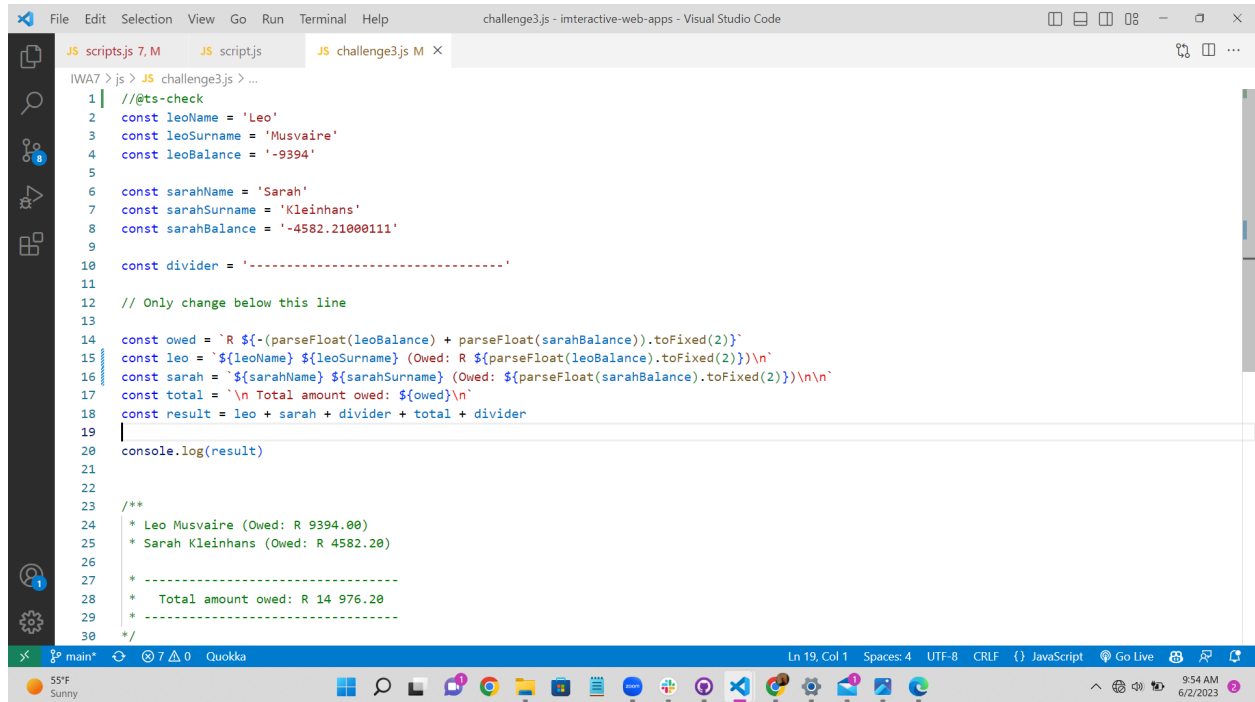
2. Please show how you applied JSDoc Comments to a piece of your code.



The screenshot shows the Visual Studio Code editor with a file named `sripts.js` open. The code defines two event listeners for buttons. The first listener, for the `signupButton`, handles a click event by preventing the default action, hiding the hero image, and showing the signup box. The second listener, for the `signinButton`, also prevents the default action, hides the hero image and the submit button, and shows the login box. Both functions use `document.querySelector` to find elements and `style.display` to toggle their visibility.

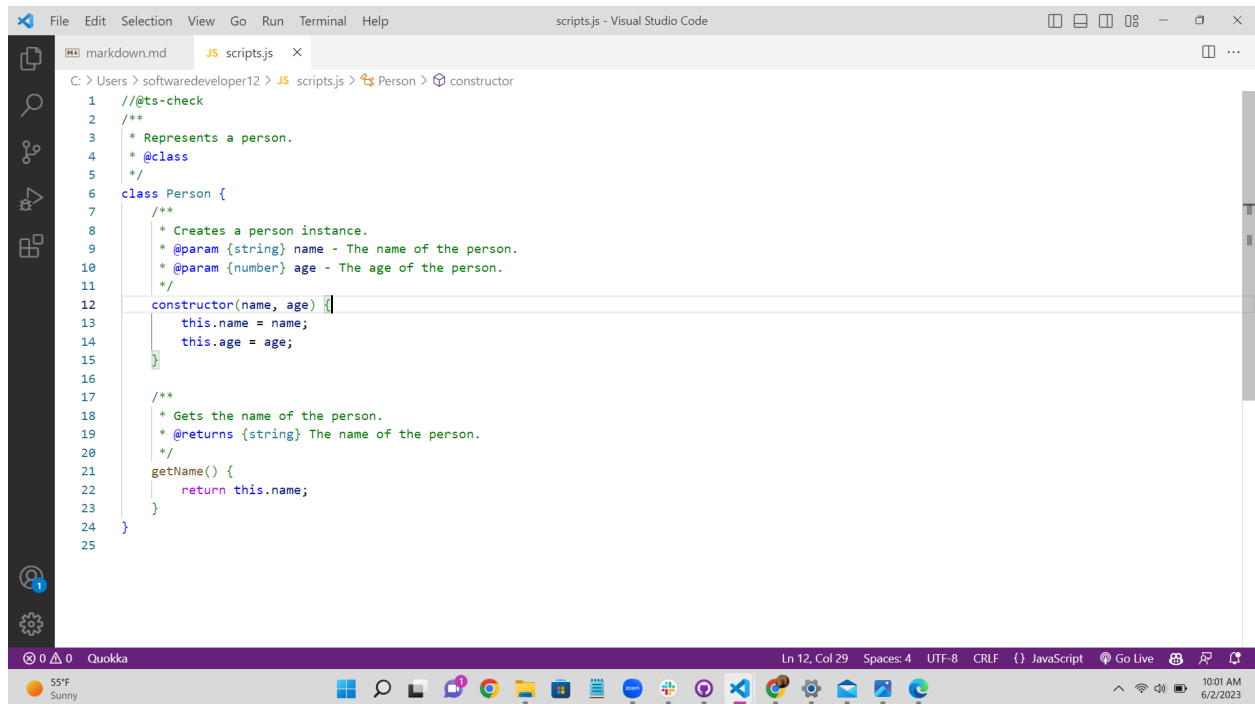
```
32
33
34  * Attach an event listener to the signup button and handle the click event.
35  * @param {Event} event - The click event object.
36  */
37  signupButton.addEventListener("click", function(event) {
38      event.preventDefault();
39      //hide the hero image
40      const hideImage = document.querySelector('.heading')
41      hideImage.style.display = 'none'
42      // Show the signup box
43      getContents.style.display = 'block'
44      signupBox.style.display = "block";
45
46  });
47
48
49  /**
50  * Attach an event listener to the sign-in button and handle the click event.
51  * @param {Event} event - The click event object.
52  */
53
54  signinButton.addEventListener("click", function(event) {
55      event.preventDefault(); // Prevent form submission
56
57      // Perform form validation here
58
59      //hide the hero image
60      const hideImage = document.querySelector('.heading')
61      hideImage.style.display = 'none'
62      //hide submit2
63      const hideButton2 = document.querySelector('.submit2')
64      hideButton2.style.display = 'none'
65      // Show the login box
66      loginBox.style.display = "block";
67      getContents.style.display = 'block'
68  });
```

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



```
1 // @ts-check
2 const leoName = 'Leo'
3 const leoSurname = 'Musvaire'
4 const leoBalance = '-9394'
5
6 const sarahName = 'Sarah'
7 const sarahSurname = 'Kleinhaus'
8 const sarahBalance = '-4582.21000111'
9
10 const divider = '-----'
11
12 // Only change below this line
13
14 const owed = `R ${-(parseFloat(leoBalance) + parseFloat(sarahBalance)).toFixed(2)}`
15 const leo = `${leoName} ${leoSurname} (Owed: R ${parseFloat(leoBalance).toFixed(2)})\n`
16 const sarah = `${sarahName} ${sarahSurname} (Owed: R ${parseFloat(sarahBalance).toFixed(2)})\n\n`
17 const total = `\n Total amount owed: ${owed}\n`
18 const result = leo + sarah + divider + total + divider
19
20 console.log(result)
21
22
23 /**
24  * Leo Musvaire (Owed: R 9394.00)
25  * Sarah Kleinhaus (Owed: R 4582.20)
26
27  * -----
28  *   Total amount owed: R 14 976.20
29  * -----
30  */
```

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



The image shows a screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar indicates the file is 'scripts.js - Visual Studio Code'. The Explorer sidebar on the left shows a file named 'markdown.md' and a folder named 'JS' containing 'scripts.js'. The main editor area displays the following TypeScript code:

```
1  /**@ts-check
2  /**
3   * Represents a person.
4   * @class
5   */
6  class Person {
7      /**
8       * Creates a person instance.
9       * @param {string} name - The name of the person.
10      * @param {number} age - The age of the person.
11      */
12      constructor(name, age) {
13          this.name = name;
14          this.age = age;
15      }
16
17      /**
18       * Gets the name of the person.
19       * @returns {string} The name of the person.
20       */
21      getName() {
22          return this.name;
23      }
24  }
25
```

The status bar at the bottom shows 'Ln 12, Col 29', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Go Live'. The system tray at the bottom right displays the date and time: '10:01 AM 6/2/2023'.