DWA_03.4 Knowledge Check_DWA3.1

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

```
⑤ README.md X
                                                                                                          显 田 …
              JS script.js
③ README.md > ™ ## Here's a Nice, Basic Calculator App > ™ ### Key features:
  1 ∨ ## Here's a Nice, Basic Calculator App
      This calculator app was [initially](https://github.com/lethabomathabatha/practice-projects/
      blob/main/javascript-beginner-project.html) built in March 2023, featuring HTML and CSS, with
      the JavaScript written within the HTML as illustrated in [this tutorial](https://www.youtube.
      com/watch?v=cGgLHJGyS34&t=21s).
      I have since extracted the JavaScript from the HTML file and rewritten it as a stand-alone
 7 \sim \text{###} So what does it do?
  \, 8 \, As a calculator, it processes user input with mathematical operators and returns the
      _calculated_ result. This calculator allows the user to perform basic arithmetic operations,
      namely - addition, subtraction, multiplication and division.
 10 ∨ ### Key features:
      - the display area is set as read-only so that values cannot directly be typed in and
     appended to any values on the display area
     - the **AC**(All Clear) button clears any values from the display area
    - the **DE**(Delete) button removes the last entered value from the display
     - number values from **0 to 9**, as well as a **00** for quicker multi-digit calculations
     - the **.** allows for decimal calculations
      - the **=** evaluates the entered expression and retuens the result
      - the +, -, ^{*} and \backslash mathematical operators process the entered values and are further
      evaluated by the =
      - the JavaScript code uses event listeners to capture _clicks_ and perform the corresponding
19
```





Here's a Nice, Basic Calculator App

This calculator app was initially built in March 2023, featuring HTML and CSS, with the JavaScript written within the HTML as illustrated in this tutorial.

I have since extracted the JavaScript from the HTML file and rewritten it as a stand-alone script.

So what does it do?

As a calculator, it processes user input with mathematical operators and returns the calculated result. This calculator allows the user to perform basic arithmetic operations, namely - addition, subtraction, multiplication and division.

Key features:

- the display area is set as read-only so that values cannot directly be typed in and appended to any values on the display area
- the AC(All Clear) button clears any values from the display area
- the DE(Delete) button removes the last entered value from the display
- number values from 0 to 9, as well as a 00 for quicker multi-digit calculations
- the . allows for decimal calculations
- the = evaluates the entered expression and retuens the result
- the +, -, * and \ mathematical operators process the entered values and are further evaluated by the =
- the JavaScript code uses event listeners to capture clicks and perform the corresponding operations

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

```
lethabomathabatha added JSDoc
Code
        Blame 63 lines (54 loc) · 1.49 KB
                                                                                        Raw (□ ± // → ○
        window.addEventListener('DOMContentLoaded', () => {
            const display = document.querySelector('input[name="display"]');
            const buttons = document.querySelectorAll('.calculator input[type="button"]');
          buttons.forEach(button => {
            button.addEventListener('click', () => {
               const value = button.value;
               handleButtonClick(value);
            * Handles button clicks and performs the corresponding action based on the value of the button.
             * @param {string} value - The value of the button that was clicked.
            function handleButtonClick(value) {
            switch (value) {
              case 'AC':
                clearDisplay();
               case 'DE':
                 deleteLastEntry();
                 evaluateExpression();
                 break;
                  appendToDisplay(value);
```

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.
