Mappedokument

For Task 1 I am aiming for grade A

For Task 2 I am aiming for grade A

For Task 3 I am aiming for grade A

I this home exam I used chatGTP for debugging and I also used it for writing syntax I forgot about or were not aware of. ChatGTP was also used to explain concepts that I did not fully understand.

**Task 1.**

To start, I'll create a feature to save the current score upon clicking the "add" button. Subsequently, I'll make certain that the number displayed in parentheses next to the "memory" heading reflects the count of stored expressions. For example, if there are five expressions in memory, the screen should show "5."

After storing mathematical functions in the memory array, I'll develop a function to showcase the last stored function when the previous button is activated. Following that, I'll create a functionality allowing backward navigation in the memory array. In essence, if there are 7 items stored, the previous button should cycle back to the first one. Additionally, I'll implement a feature that disables the previous button when reaching the end of the array.

Finally, I'll develop a function to enable the next button. This button facilitates navigation to the latest function in the array. Similar to the previous button, the next button will be disabled when there are no more functions to move forward to.

**Task 2.**

I'll use JavaScript to randomly draw a square or circle within the canvas upon clicking the corresponding buttons (C and S). With each click on C and S, I'll update counters for squares, circles, and total elements.

Additionally, I'll implement keyboard interaction, allowing the drawing of a circle when the C key is pressed and a square when the S key is pressed.

I'll create a function that enables successive clicks on the S or C buttons, adding new squares or circles randomly within the canvas. The counters will be updated accordingly.

I'll implement functionality to remove a randomly selected element from the canvas upon clicking the 'R' button or pressing the 'R' key, updating counters as elements are removed.

Finally, I'll create a timer to track the user's active time and a function to calculate and update the average number of elements per second based on user activity.

**Task 3**

I'll start by clearing the content of the HTML element with the ID 'staffList' and iterate through each employee in the `staff` array, creating an HTML card for each.

Next, I'll create a function to register new employees, considering the use of an event listener to retrieve information. I'll implement basic validation to check the correctness of the information entered into the input fields.

Afterward, I'll develop a function to activate the drop-down menu functionality for departments and positions, allowing users to add new positions and departments. I'll use the sort() function to alphabetically sort both departments and positions. If this proves challenging or inefficient in one function, I'll create separate functions for positions and departments.

I'll implement a position filter to display only employees from a selected department when clicked, updating the displayed staff list accordingly. Finally, I'll ensure the array for the employee's staff list is sorted by their last names.