Exercise 3 - Image Slider

Subjects: DOM, Events, Arrays

Objective: Create an image slider that allows users to navigate through a series of images using "Previous" and "Next" buttons. The image slider should adjust the visible image based on user interaction, and also manage boundary conditions (i.e., not moving past the first or last image).

Instructions:

1. JavaScript Functionality:

• Initialization:

- Use the document.querySelectorAll() method to select all elements within the "slider" div. Store these in a variable named slides.
- Create a variable named currentIndex to keep track of the currently displayed image. Initialize it to 0, corresponding to the first image.

Moving Between Slides:

- Create a function named moveSlide() that accepts a single parameter, direction, which will be either 1 (for "Next") or -1 (for "Previous").
- In this function:
 - Remove the "active" class from the currently displayed image.
 - Adjust the currentIndex by adding the direction value to it.
 - Handle boundary conditions:
 - If the new currentIndex would be less than 0 (trying to go before the first image), reset it to 0.
 - If the new currentIndex would be equal to or greater than the number of slides, set it to the last index.
 - Add the "active" class to the new current image based on the adjusted currentIndex.

2. User Interaction:

Assign the moveSlide() function to the "Previous" and "Next" buttons' onclick handlers, passing -1 for "Previous" and 1 for "Next".

3. Test Your Slider:

- Open the HTML file in a browser.
- Click the "Previous" and "Next" buttons to ensure the images are sliding correctly.
- Ensure that you cannot navigate before the first image or after the last image.

4. **HTML**:

• use the attached HTML code for this exercise.