Pagination Exercise Lab:

Objective: Implement pagination for a list of student items displayed on a webpage.

Step 1: Set up the HTML Structure

- Create an HTML file with the necessary structure.
- Include a Include a element with the class student-list to hold the list of student items.
- Add a <div> element with the class pagination to hold the pagination links.

Step 2: Fetch Elements and Define Variables

- Use JavaScript to select the .student-list element and store it in a variable named studentlist.
- Use **studentlist.children** to get all the student items and store them in a variable named **studentItem**.
- Define a constant perPage to specify the number of items to display per page.
- Initialize a variable **page** to keep track of the current page number, starting from 1.

Step 3: Define the showPage Function

- Define a function named showPage that takes two parameters: list (the list of student items) and page (the current page number).
- Loop through each student item in the list.
- If the index of the student item is within the range of the current page ((page 1) * perPage to page * perPage 1), set its display style property to "block", else set it to "none".

Step 4: Call showPage to Display Initial Page

• Call the **showPage** function with **studentItem** and **0** as arguments to display the first page of student items initially.

See: script_1.js

Step 5: Define the appendPageLinks Function to show the buttons

- Define a function named **appendPageLinks** that takes a parameter **list** (the list of student items).
- Calculate the total number of pages (totalPages) by dividing the length of the list by perPage and rounding up to the nearest integer using Math.ceil.
- Select the .pagination element and store it in a variable named ItemList.
- Loop from 1 to totalPages to create pagination buttons.
- Create a new element for each page and set its innerHTML to contain an anchor tag with the page number.
- Append each button to the ItemList.

See: script_2.js

Step 6: Add Click Event Listeners to Pagination Buttons

- Select all the pagination buttons (<a> elements) and store them in a variable named itembuttons.
- Remove the active class from all pagination buttons.
- Add a click event listener to each pagination button.
- Inside the event listener, call the **showPage** function with the current page number as the argument.
- Add the active class to the clicked pagination button.

Step 7: Call appendPageLinks to Generate Pagination

• Call the **appendPageLinks** function with **studentItem** as the argument to generate pagination links based on the list of student items.

See: script_3.js

Step 8: Test the Pagination

 Open the HTML file in a web browser and test the pagination functionality by clicking on different page numbers.

Step 9: Read from Local data file

- Data is given in data.js.
- Attach the dataset
- Create a **Render function** that implement html code for one user
- Create a init function that loop through the student list and render all items.
- Add a line to show the total number of users.

See: script_2_1.js