Exercise 1 - DOM Traversal and Manipulation

Objective: Learn and practice various techniques to traverse and manipulate the DOM using pure JavaScript.

Instructions:

1. You are given the attached HTML document.

2. Selecting a Specific List Item:

- Use document.querySelector('li.start-here') to select the element with a class of "start-here".
- Store this selected element in the myLi variable.

3. Changing Text Content:

Assignment 1:

- Modify the text content of the selected myLi element.
- Use myLi.textContent to update the text from "title 2" to "main title".

4. Adding a New Sub Title:

Assignment 2:

- Traverse to the next sibling of the myLi element using
 myLi.nextElementSibling and store it in the myLiNextSibling variable.
- Select the child unordered list () of myLiNextSibling using
 myLiNextSibling.firstElementChild and store it in the myUl variable.
- Create a new list item () element using document.createElement('li')and store it in the newSubTitle variable.
- Create a new text node with content "sub title 4" using document.createTextNode('sub title 4') and store it in subTitleText.
- Append the text node to the newly created list item using newSubTitle.appendChild(subTitleText).
- Finally, append this new list item to the myUl element usingmyUl.appendChild(newSubTitle), thereby adding a new subtitle to the list.

5. Removing the Last Title:

Assignment 3:

- Navigate to the parent
 of the myLi element using myLi.parentElement
 and store it in the myLiParent variable.
- Use myLiParent.lastElementChild.remove() to remove the last child list item () of this parent unordered list.

6. Updating the Document's Title:

Assignment 4:

- Access the document's <head> and store it in the head variable.
- Access the last child element of the <head> (which is the <title> element) and store it in the title variable. Alternatively, the title element can be directly accessed using document.head.querySelector('title').
- Note: The code to update the title's text content is commented out in the given solution. To modify the title text, you'd use:

```
title.textContent = 'DOM Master';
```

7. Updating Paragraph Content:

Assignment 5:

- Traverse to the <div> that comes after the myLiParent using myLiParent.nextElementSibling and store it in the div variable.
- Access the first child of the div (which is a element) and store it in the p variable.
- Use p.textContent to update the text content of the paragraph to "Now I know how to traverse the DOM:D".