

Create an HTML file named index.html.

Inside the HTML file, set up the basic structure of an HTML document. Include elements such as headings, paragraphs, lists, buttons, and divs. Assign meaningful id and class attributes to these elements for later selection.

Create a new JavaScript file named script.js.

Link the script.js file to your HTML document using the <script> tag.

Inside the script.js file, complete the following tasks:

Task 1: Selecting Single Elements

- a. Using getElementById, select an element with a specific id attribute.
- b. Using querySelector, select an element using its tag name.
- c. Using querySelector, select an element with a specific class.

Task 2: Modifying Single Elements

- a. Change the text content of one of the selected elements from Task 1a.
- b. Change the background color of the element selected in Task 1b.
- c. Add a new CSS class to the element selected in Task 1c.

Task 3: Selecting Multiple Elements

- a. Using getElementsByTagName, select all elements of a specific tag.
- b. Using getElementsByClassName, select all elements with a specific class.
- c. Using querySelectorAll, select all elements with a specific class.

Task 4: Modifying Multiple Elements

- a. Loop through the elements selected in Task 3a and change their font color.
- b. Loop through the elements selected in Task 3b and modify their text content.
- c. Loop through the elements selected in Task 3c and add a click event listener to each one. The event listener should display an alert with the element's text content when clicked.