

JavaScript DOM Manipulation and JavaScript Events:

Practice Exercises

The questions below are based on the HTML file provided on this [link](#). Please download the document first. **Note:** The document does not have the JavaScript file included on it. Do not forget to create a JavaScript file inside of a folder called "js" and include the file at the bottom of your HTML document. Just to make sure you have successfully included the script, print the word "Testing ..." on your console and double check if your JavaScript file is correctly linked.

Question 1: The following three questions are based on the two paragraphs under the section which says "For Question 1" in the index.html file.

- 1.1 Select the element with an id of "sample1".
- 1.2 Print the element itself on the console upon page refresh.
- 1.3 Print the content of the element on the console upon page refresh.

Hint: Use the "textContent" property to select the content

Question 2: The following questions are based on the HTML code found under the section labeled "For question 2".

- 2.1 Select the element with an ID of "techCompanies" and display it on your console. (Do not use "querySelector" for this question)
- 2.2 Use "querySelector" to select the element with an ID of "techCompanies" and display it on your console.
- 2.3 How many tech companies are listed under the ul element with an id of "techCompanies"? Use "querySelectorAll" to count the total.

- 2.4 Select all elements with a class name of "red" and display them on the console. Use both "querySelectorAll" and "getElementByClass"
- 2.5 Create a new li HTML element with a content of "Facebook" and display it on console
- 2.6 Give the newly created element a class of "blue" using JavaScript
- 2.7 Append the newly created element next to the the "Sony" li element
- 2.8 How many of the tech companies are labeled blue? Find the result using JavaScript and display the result inside the "blueCompanies" div.

Question 3:

Change the background color of the page to light-blue (#99ecff) when clicked on the text that says "Yes". If there is a background color set already, change it to none when clicked on "No"

Hint: First, write two functions to alter the backgroundColor of the page. One to add a background color, another to remove. Then, select the "yesBackground" or "noBackground" element and bind the selected element with the click event. Finally, attach the function you wrote to alter the background color when the respective element is clicked on.

Question 4:

A form with two text fields is provided under the section which says "For question 4". Write a JavaScript code which takes the values of the two fields, checks if they are number values and calculate the sum of the two numbers.

1. Display the result on the console
2. Display the result underneath the form
3. If any of the numbers provided is not a number, display a message that says "Please enter numerical values only" underneath the form

Hint on how to organize your folders and files

- Download the “DOM and Events Practice” zipped file, extract it and save it under your “Evangadi” folder.
- The zipped file contains the “DOM and Events Practice” folder. Inside this folder, you will find an “index.html” file, a css folder containing a “styles.css”.
- For this week’s practice questions, you will need to create your own “js” folder and “scripts.js” file inside of your “js” folder. You will also need to link your “scripts.js” file with your HTML document. You will be writing your JavaScript code on the “scripts.js” file.
- Now you can start working on your assignment.

Happy coding 😊😊