Lab: DOM Introduction

Problems for in-class lab for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/2760/DOM-Introduction-Lab

Environment Specifics

Please, be aware that every JS environment may behave differently when executing code. Certain things that work in the browser are not supported in **Node.js**, which is the environment used by **Judge**.

The following actions are **NOT** supported:

- .forEach() with NodeList (returned by querySelector() and querySelectorAll())
- .forEach() with HTMLCollection (returned by getElementsByClassName() and element.children)
- Using the **spread-operator** (...) to convert a **NodeList** into an array
- append() in Judge (use only appendChild())
- prepend()
- replaceWith()
- replaceAll()
- closest()
- replaceChildren()
- Always turn the collection into a JS array (for Each, for Of, et.)

If you want to perform these operations, you may use **Array.from()** to first convert the collection into an array.

1. Edit Element

Create function edit() that takes three parameters.

Input/Output

The first parameter is a reference to an HTML element, the other two parameters are string-match and replacer.

You have to replace all occurrences of the match inside the text content of the given element with a replacer.

Examples



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Hello, Document Object Model!

Edit Element

















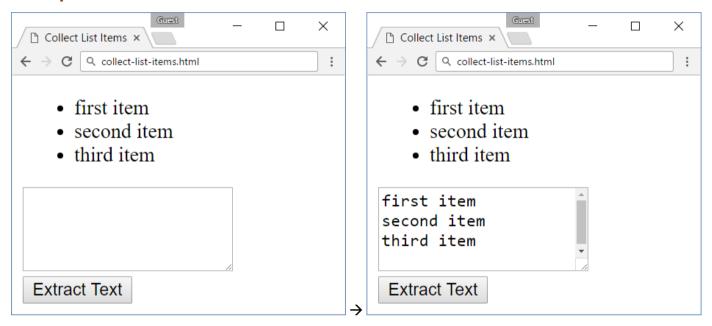
2. Collect List Items

Write a JS function that scans a given HTML list and appends all collected list items' text to a textarea on the same page when the user clicks on a button.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples



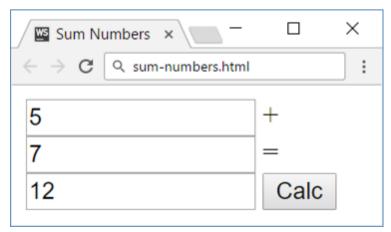
3. Sum Numbers

Write a JS function that reads two numbers from input fields in a web page and puts their sum in another field when the user clicks on a button.

Input/Output

There will be no input/output, your program should instead modify the DOM of the given HTML document.

Examples















4. Show More

Write a JS function that expands a hidden section of text when a link is clicked. The link should disappear as the rest of the text shows up.

Input/Output

There will be no input/output, your program should instead modify the DOM of the given HTML document.

Examples

Welcome to the "Show More Text Example". Read more ...



Welcome to the "Show More Text Example". Welcome to JavaScript and DOM.

5. Colorize Table

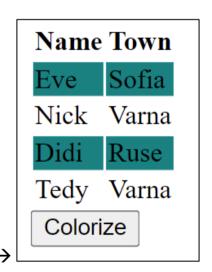
Write a JS function that changes the color of all even rows when the user clicks a button. Apply the color "Teal" to the target rows.

Input/Output

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

Examples





6. Sum Table

Write a JS function that finds the first table in a document and sums the values in the last column. The result is then displayed in an element with ID "sum".

Input/Output

There will be no input/output, your program should instead modify the DOM of the given HTML document.

















Examples

Product Cost

Beer 2.88

Fries 2.15

Burger 4.59

Total:

Sum

Product Cost Beer 2.88 Fries 2.15 Burger 4.59 Total: 9.62 Sum

7. Extract Parenthesis

Write a JS function that when **executed**, extracts all parenthesized text from a target paragraph by given element ID. The result is a string, joined by "; " (semicolon, space).

Input

Your function will receive a string parameter, representing the target element ID, from which text must be extracted. The text should be extracted from the DOM.

Output

Return a string with all matched text, separated by "; " (semicolon, space).

Examples

```
•••<!DOCTYPE html> == $0
<html lang="en">
 <head>...</head>
 ▼ <body>
  ▼
         The Rose Valley (Bulgaria) is located just south of the Balkan Mountains
      (Kazanlak). The most common oil-bearing rose found in the valley is the pink-
      petaled Damask rose (Rosa damascena Mill).
    </body>
</html>
```

```
Sample call
```

let text = extract("content");

Result (stored in variable text)

Bulgaria; Kazanlak; Rosa demascena Mill

















