

# DOM and Events - Lab

Problems for in-class lab for the ["JS Front-End" course @ SoftUni](https://judge.softuni.org/Contests/3794/DOM-and-Events-Lab). Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/3794/DOM-and-Events-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** (`forEach`, `forOf`, et.)

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

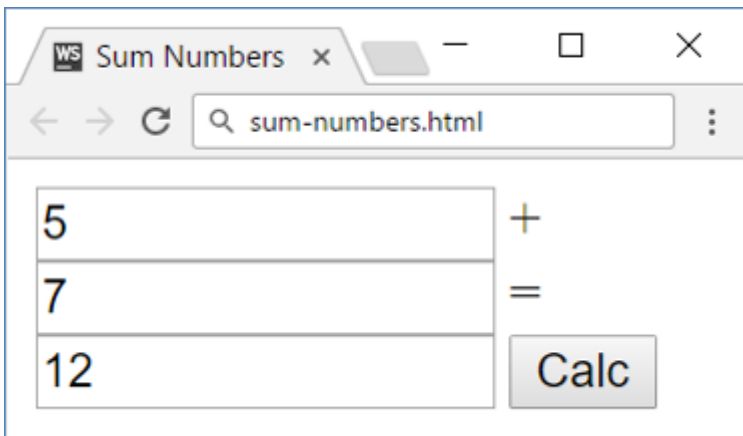
## 1. Sum Numbers

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



## 2. 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.

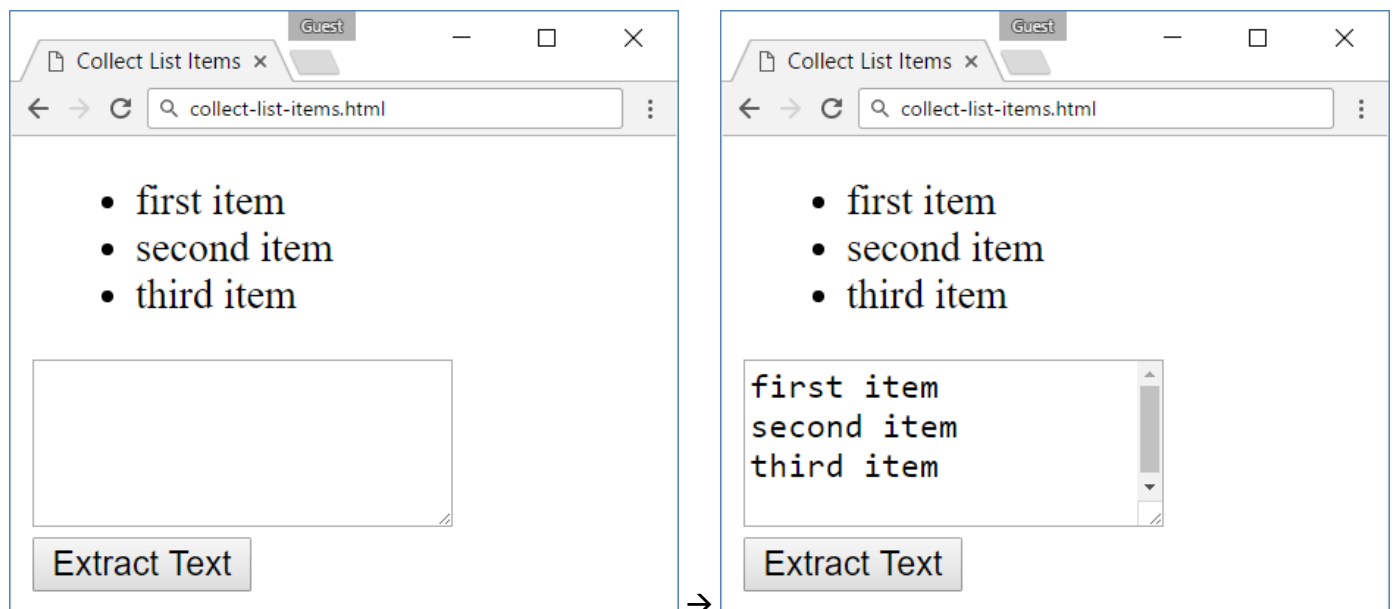
## 3. Collect List Items

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.

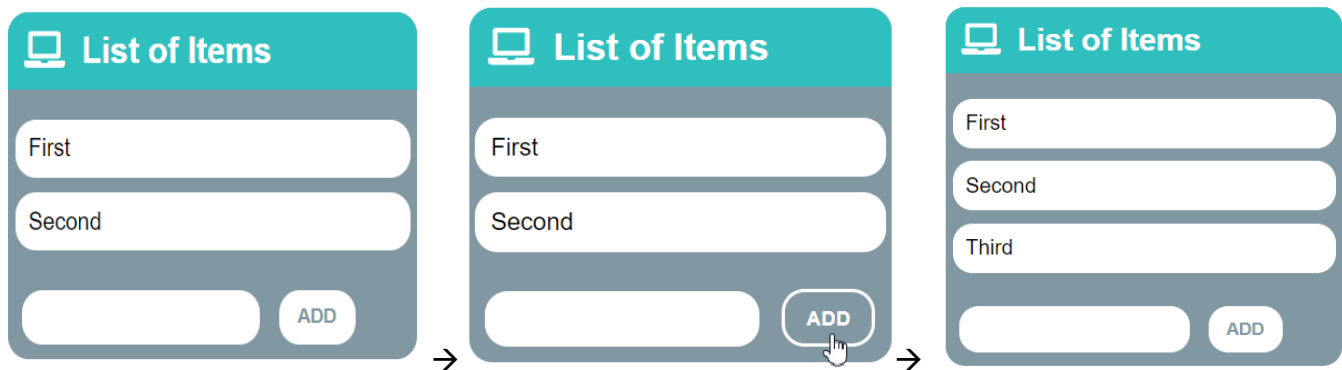
## Examples



## 4. List of Items

Write a function that **reads** the text inside an input field and **appends** the specified text to a list inside an HTML page.

## Examples



## 5. Delete from Table

Write a program that **takes** an **email** from an **input field** and **deletes** the matching row from a table.

- If entry is found, the **textContent** in the element with **id="result"** must be set to **"Deleted."**
- Otherwise, an **error** should be displayed in a **<div>** with **id="result"**. The error should be **"Not found."**

Submit **only** the **deleteByEmail()** function in Judge.

## Input/Output

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

## Examples

Name	Email
Eve	eve@gmail.com
Nick	nick@yahooo.com
Didi	didi@didi.net
Tedy	tedy@tedy.com

Email:

Name	Email
Nick	nick@yahooo.com
Didi	didi@didi.net
Tedy	tedy@tedy.com

Email:

Deleted.

## 6. Add / Delete

Extend the previous problem to display a **[Delete]** link after each list item. **Clicking** it should **delete** the item with no confirmation. You have to add **href="#"** to the link element.

### Examples

List of Items

First [Delete]

Second [Delete]

ADD

→

List of Items

First [Delete]

ADD

## 7. 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

Name	Town
Eve	Sofia
Nick	Varna
Didi	Ruse
Tedy	Varna

Colorize

→

Name	Town
Eve	Sofia
Nick	Varna
Didi	Ruse
Tedy	Varna

Colorize

## 8. 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

## 9. Highlight Active

Write a **function** that **highlights** the **currently active** section of a document. There will be **multiple** divs with **input fields** inside them. Set the **class** of the **div** that contains the **currently focused** input field to "**focused**". When the focus is lost (**blurred**), **remove the class** from the element.

Submit only the **focused()** function in Judge.

### Input/Output

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

Example

