Lab: Document Object Model

Problems for in-class lab for the <u>"JavaScript Advanced" course @ SoftUni</u>. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/328/.

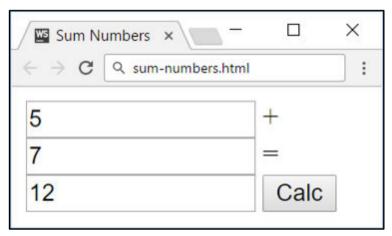
1. Sum Numbers

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.













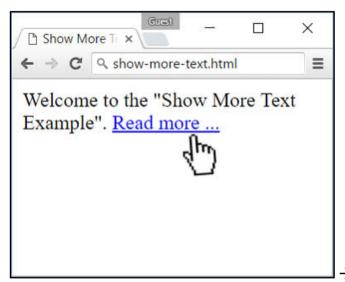






```
Sample HTML
Welcome to the "Show More Text Example".
<a href="#" id="more" onclick= "showText()">Read more ...</a>
<span id="text" style= "display:none">Welcome to JavaScript and DOM.
<script>
 function showText() {
   // TODO
</script>
```

Examples





3. Collect List Items

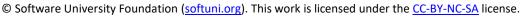
Write a JS function that scans a given HTML list and appends all collected list items' text to a text area on the same page when the user clicks on a button.

Input/Output

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

```
Sample HTML
first item
 second item
 third item
<textarea id="result"></textarea>
<button onclick="extractText()">Extract Text</button>
<script>
 function extractText() {
   // TODO
 }
</script>
```











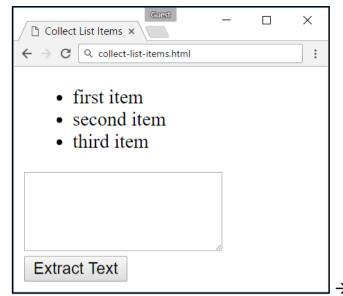


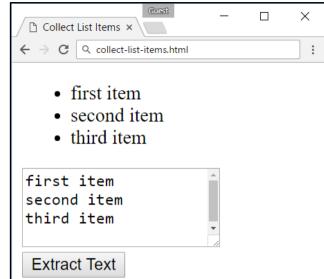






Examples





4. 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.

```
Sample HTML
NameTown
 EveSofia
 NickVarna
 DidiRuse
 TedyVarna
<button onclick="colorize()">Colorize</button>
<script>
 function colorize() {
  // TODO
</script>
```











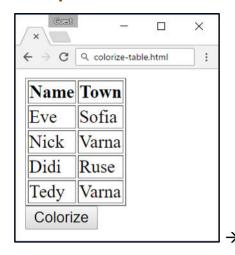


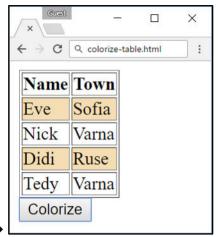






Examples





5. Countdown

Write a JS program that implements a web countdown timer that supports minutes and seconds. The user should be able to set the time by calling a function with the number of seconds required. The time begins to count down as soon as the function is called. Using the sample code, your function will be called as soon as the page finishes loading and will begin to count down from 10 minutes.

Input

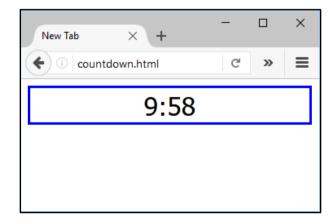
Your function will receive a **number parameter**, representing the starting number of **seconds**.

Output

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

```
Sample HTML
<input type="text" id="time" style="border:3px solid blue; text-align:center;</pre>
font-size:2em;" disabled="true"/>
<script>window.onload = function() { countdown(600); }</script>
```

Examples























6. Extract Parentheses

Write a JS function that when **executed**, extracts all parenthesized text from a target paragraph by a 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

```
<head></head>
<body>
 v
    Rakiya (Bulgarian brandy) is home-made liquor
    (alcoholic drink). It can be made of grapes,
    plums or other fruits (even apples).
  </body>
</html>
```

```
Sample call
let text = extract("content");
                                 Result (stored in variable text)
Bulgarian brandy; alcoholic drink; even apples
```

7. * 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.

```
Sample HTML
ProductCost
 Beer
 Fries
 Burger4.59
```



















```
Total: 
<button onclick="sum()">Sum</button>
```

Example



