

Lab 4_2 [18 points] JavaScript Event Handling

Objectives

- Practice event handling in JavaScript
- Create and use JavaScript functions
- Explore string related methods
- Explore Math functions
- Practice debugging and error correction

What to do

Please follow the steps to complete debugging and function creation tasks

1. Download and extract lab4_2_1.html, lab4_2_1.js, lab4_2_2.html, and lab4_2_2.js files. The html webpages are simple webpages that show a simple string converter and a simple calculator.

Lab4_2_1

You will explore string methods to manipulate strings.

<input type="text"/>	Covert to Upper Case	Covert to Lower Case	Get the Last Character	Remove Spaces	<input type="text"/>
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Lab4_2_2

You will create a simple calculator.

<input type="text"/>	<input type="text"/>	+	-	*	/	**	<input type="text"/>
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2. [8 points] Complete the JavaScript code in lab4_2_1.js to achieve four tasks:

a. Convert the input from the text box to all upper case. Hint: Explore and use toUpperCase() method. The sample run looks like

Hello World!	Covert to Upper Case	Covert to Lower Case	Get the Last Character	Remove Spaces	HELLO WORLD!
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b. Convert the input from the text box to all lower case. Hint: Explore and use toLowerCase() method. The sample run looks like

Hello World!	Covert to Upper Case	Covert to Lower Case	Get the Last Character	Remove Spaces	hello world!
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c. Obtain the last character of the string from the text box. Hint: Explore and use slice() method. The sample run looks like

Hello World!	Covert to Upper Case	Covert to Lower Case	Get the Last Character	Remove Spaces	!
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d. Remove all the blank space in the string from the text box. Hint: Explore and use replaceAll() method. The sample run looks like

Hello World!	Covert to Upper Case	Covert to Lower Case	Get the Last Character	Remove Spaces	HelloWorld!
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3. [10 points] Complete the JavaScript code in lab4_2_2.js to achieve four tasks:

a. Add two numbers. The sample run looks like

You will create a simple calculator.

2 3 + - * / ** 5

b. Subtract two numbers. The sample run looks like

2 3 + - * / ** -1

c. Multiply two numbers. The sample run looks like

2 3 + - * / ** 6

d. Divide two numbers. The sample run looks like

2 3 + - * / ** 0.6666666666666666

e. Calculate the exponent. The sample run looks like

2 3 + - * / ** 8

Submission:

Put all files in a folder and **Zip** the folder and submit to Brightspace.