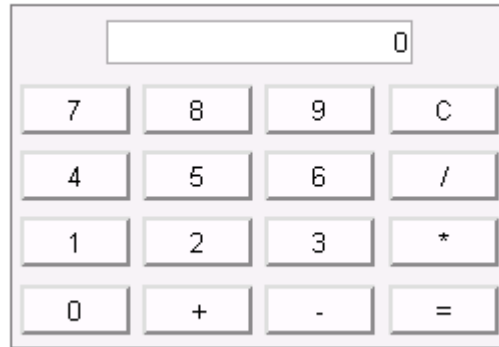


## CSCI 215: Homework 6

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### Collaboration: Team Assignment

Use JavaScript to program web calculator.



<input type="text" value="0"/>			
7	8	9	C
4	5	6	/
1	2	3	*
0	+	-	=

As shown above, the web calculator shall support addition (+), subtraction (-), multiplication (\*), and division (/) operations. The “C” button clears the web calculator (i.e. sets output to zero).

Your team will use jsFiddle to complete this assignment (project parameters: No-Library (pure JS) and No wrap – in <body>). The attached zip file contains the presentation file (css), structure file (html), and the initial behavior (js) file. Your team does not need to modify the presentation or structure.

### Task 1: Operation Button Variables

Use the appropriate element selector to create the following button variables:

- Divide (variable name `divideBttn`)
- Multiply (variable name `multiplyBttn`)
- Subtract (variable name `subtractBttn`)
- Addition (variable name `additionBttn`)
- Equal (variable name `equalBttn`)
- Clear (variable name `clearBttn`)

### Task 2: Number Button Events

Add an event listener to each number button element stored in the `numBttns` array. For all number button elements the event type is `click` and the handler function will be `numEvent( event )`. Note: the capture is set to `false`.

### **Task 3: Operation Button Events**

Add an event listener to each operation button created in Task 1. For each operation button the event type is `click` and individual handler functions are listed below. Note: the capture is set to false.

- `divideBtn: divide()`
- `multiplyBtn: multiply()`
- `subtractBtn: subtract()`
- `additionBtn: addition()`
- `equalBtn: equal()`
- `clearBtn: clear()`

### **Task 4: Calculation**

Write the code to calculate the total value displayed to the user. This code shall use the button click values stored in the number array (`N`) and the operation click values stored in the operation array (`Op`). For example, say the user presses the buttons in the following sequence

$$10 + 15 - 5 * 2$$

and then clicks the equal (=) button. The total value displayed is 40. For this example the number array will contain `N = [10, 15, 5, 2]`, and the operation array will contain `Op = ['+', '-', '*']`. In this task your job is to use these two arrays to compute the total value and then display to user.

### **Submission of Assignment**

When completed, only submit the completed behavior file (with txt extension) and to Dropbox.

**Only one team member will submit the solution to Dropbox.** If two members of the same team submit individual solutions – I will not grade the assignment.

### **Other Information**

Late assignments will not be accepted – no exceptions (please do not email me your assignment after the due date, I will not accept it).

Please feel free to setup an appointment to discuss the homework problem. I will be more than happy to listen to your approach and make suggestions. However, I will not tell you how to code the assignment. Furthermore, code debugging is your job; please do not come to my office asking me to fix your code.

Lastly, if you're unsure about any aspect of this assignment, you must ask! It is your responsibility to flush out questions you may have about the assignment prior to the due date. I can't help resolve an issue, or add clarity, if you don't ask.