

## Web Applications Development. Laboratory 4 – “The amazing calculator”

For this laboratory you will have to add functionality to the basic calculator that is provided in the zip file under the laboratories description.

- 1) It is a basic calculator. You must add functionality to the buttons of **RESET**, **=**, **+**, **-**, **\***, **/**. Each button must attempt the operation that it's selected. Every time that any button is clicked the input for numbers must be clean.
- 2) There is an input where you can type numbers. Those numbers are the ones that will be calculated with the operators described in step 1).
- 3) You must keep track of the result and display it on the **RESULT** = input when the user hits the = button.
- 4) The button of **RESET** will clean both your result and the input for numbers.
- 5) There is a text area at the bottom of the calculator. This text area is meant for keeping a log of all the operations done in the calculator.

### Example 1:

User types 45.50 then hits + then types 30.5 then hits = .

The log should display:  $45.50 + 30.5 = 76.0$

### Example 2:

User types 4 then hits \* then types 5 then hits + then types 3 then hits / then types 2 and finally it hits = .

The log should display:  $4 * 5 + 3 / 2 = 11.5$

**Notice that there are not priorities of operators, you just need to execute the operation from left to right.**

Extra information to consider:

- You must use the JavaScript DOM techniques that we saw at class.
- CSS has been provided to you. There is no need to modify CSS unless you believe it is necessary.
- **HINT:** When you get the value from the input of numbers you might want to use the function **Number(textHere)**, a JavaScript function to convert a string to a number.

**Example:** `var numString = "45 "; Number(numString); => 45`

- **EXTRA CREDIT:** Make this calculator smart enough to cover the operators priorities that you know off. First \* and /, last + and - .

This lab must be delivered on Thursday March 12th by 11:59PM. It is an individual exercise. When you're done, post this to a Github and generate the Github pages. Submit both links via the google site on your profile under a new page named in the following way:

StudentID\_Lab4

Example: AlfredoSalazar45\_Lab4

In that Page you must add in the edit box both the Github and Github pages holding your work.