CSE 264 – Web Systems Programming – Spring 2015 Homework Assignment 4 - Calculator Due Monday, 2/23/15 at 11:00 pm.

Objective

To gain a better understanding of HTML DOM programming with JavaScript.

Description

You will create a simple four function calculator in html.

Instructions

- 1. Create a single html page that implements a simple four function calculator in the style of the old HP calculators. You perform calculations by entering numbers, pushing them on the stack and then selecting operations (+-*/) which pop the top 2 operands off the stack, perform the operation, display the result and push it on the stack.
 - (a) Create a new HTML5 NetBeans project.
 - (b) Display
 - i. The calculator display should always be right justified.
 - ii. It should initialize with a 0 in the display.
 - (c) Keys
 - i. The numbers on the digit keys, 0-9, should be red; all the others, black.
 - ii. The **Push** button should take the current number in the display and push it on the stack.
 - iii. The four function keys (+ * /) should perform their normal functions on the top 2 values on the stack and push the result.
 - (d) As each digit key is pressed, the digit should be concatenated to the right end of the display. If the result of a calculation is being show in the display, then the first digit pressed should replace the result with that digit.
 - (e) The calculator does not need to have any notion of operator precedence.
 - (f) The +/- key should flip the sign of the number in the display (and internally).
 - (g) The C key should clear out the calculator, as if it had just been turned on.
 - (h) The calculator should ignore any attempt to key a 2nd decimal point for the number in the display.
 - (i) All the keys are used by clicking on them with the mouse.
 - (j) The display should be read only.
 - (k) All internal arithmetic should be floating point.
 - (1) Make sure the calculator works in Chrome and Firefox. Don't worry about other browsers.
 - (m) Coding Style
 - i. Use a linked style sheet for all your styles. There should be no style declarations in your html file.
 - ii. Use unobtrusive JavaScript (all your JavaScript should be placed in a separate file).

2. Submission

(a) Zip up the project and submit to Coursesite.