

# CS601: Module 3 Assignment

## General Rules for Homework Assignments

- You are strongly encouraged to add comments to your source code. Doing so will help your facilitator to understand your logic/approach and grade your work more accurately.
- You must work on your assignments individually. You are **not allowed** to copy the answers from others. However, you are encouraged to discuss approaches to the homework assignment with your facilitator.
- You are expected to write your own code for all assignments. You may use an IDE or advanced text editor for your assignments, but you **must not** use any auto generated code provided by such tools or other applications. So be sure to write your own code in the editor window, don't use the WYSIWYG builder (if applicable).
- Do not use any unapproved code libraries or frameworks.
- Each assignment has a strict deadline. However, you are still allowed to submit your assignment within **two (2) days** after the deadline with a penalty. 15% of the credit will be deducted unless you made previous arrangements with your facilitator. Assignments submitted 2 days after the deadline will not be graded.
- When the term *lastName* is referenced in an assignment's file or folder name, please replace it with **your** last name.

Create a new folder/directory named **CS601\_HW3\_***lastName*. Place your solution(s) to the assignment requirements in this folder.

*NOTE: THIS DOCUMENT CONTAINS MULTIPLE PAGES*

# Simple JavaScript Calculator

## Requirements:

Using HTML 5, CSS, and JavaScript (no other languages):

Write a JavaScript program that performs the following actions (in sequence, step-by-step):

1. Welcomes the visitor with an alert
2. Prompts the visitor for his/her name
3. Displays the users name with an alert
  - a. Such as "Welcome [name]!"
4. Asks the visitor to enter two numbers with a prompt
  - a. They can enter one number with one prompt and the second number with a second prompt, or you can ask them to enter them in one prompt, separated by a space or comma.
5. Uses a function (that you create) to add these two visitor entered numbers and adds them together and returns the result to the visitor with an alert. Concatenate the result of adding their two numbers together at the end of this phrase: "The sum of your two numbers is: [result]"
6. Add conditional logic (if/else):
  - a. If the result of adding the two numbers together is greater than 10:
    - i. Alert: "That is a big number."
  - b. If the result of adding the two numbers together is less than or equal to 10:
    - i. Alert: "That is a small number."
7. Add a loop:
  - a. Prompt the user and ask if they want to add two numbers again, if they do (check for yes/no):
    - i. Let the user provide two numbers again and produce the result with an alert (steps 4-7 repeat)
  - b. If they don't want to continue adding numbers:
    - i. Thank the visitor for using the program and stop.

The use of CSS is not required, it is optional for this part of the assignment.

### **Assessment/Grading:**

Your assignment submission will be scored by the following criteria:

1. Strict adherence to the requirements stated above: 70%
2. Code validates without errors (warnings are OK): 10%
3. Overall quality of work and effort as determined by your facilitator: 20%
  - a. Tips: Go above and beyond the assignment requirements for example: Style the page with CSS, check to see if the input is a valid number, use the onclick event for a button to start the program, etc.

It is important that your code passes validation; you should use <http://validator.w3.org> for assistance.

You must also validate your CSS code as well, that can be done here: <http://jigsaw.w3.org/css-validator/>

Note: Preserve the code from this part of the homework, as you may be building upon this in future assignments.

### **Submission**

Export your **CS601\_HW3\_***lastName* folder containing all the relevant sub-folders and files as a zip file, and upload the zip file to the appropriate assignment submission area.