Objectives
- Practice using JavaScript operators and global objects.
- Practice using the FireFox development tools, including Scratchpad editor.

Instructions

Write a single JavaScript program that performs four calculations.

Calculation 1
- Prompt the user for a numeric value named 'a'
- Assign the first entered value to a new variable
- Prompt the user for a numeric value named 'b'
- Assign the second entered value to a new variable
- Compute $c = \sqrt{a^2 + b^2}$ and assign to a new variable
- Display the result as a descriptive string using an `alert()` dialog

Calculation 2
- Prompt the user for 'Total seconds' and save to a variable
- Ensure an integer value is obtained using `parseInt()` on first variable and save result to a new variable
- Compute total seconds to the equivalent number of hours, minutes and seconds using the modulus (`%`) and division (`/`) operators and the `floor()` function.
- Display the result as a single message using an `alert()` dialog

Calculation 3
- Prompt the user for a comma-delimited string of values and save to a new variable
- Split the string on '`,`' and rejoin the resulting array into a new string with values separated by '`;`'
- Display the resulting joined string using an `alert()` dialog

Calculation 4
- Prompt the user for a date string and save to a new variable
- Use the `parse()` method of the Date object to turn the date as milliseconds and save to a new variable
- Compute the date that is exactly one day later by adding the appropriate number of milliseconds to the variable to advance the date
- Use the `Date()` constructor to create a new Date object from milliseconds and save to a new variable
- Convert the new Date object to a string using the `toDateString()` method of Date and save to a new variable
- Display the new date string using an `alert()` dialog

Finishing Up
- You MUST enter header comments into you JavaScript file including (1) File name, (2) Your name, (3) Description and or purpose of the assignment
- You MUST comment you code, explaining what you did in each section
- Submit your single JavaScript file using Canvas under the appropriate assignment name