Objectives
- Practice using JavaScript operators and global objects.
- Practice using the Chrome development tools.

Instructions

Write a single JavaScript program that performs the following three 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 second 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 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 3
- Prompt the user for a date string and save to a new variable
- Use the Date object's static `parse()` method 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

You may use the following HTML file to run your JavaScript program file lab01.js.

```
<!DOCTYPE HTML>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Lab01</title>
    <script type="text/javascript" src="lab01.js"></script>
  </head>
  <body> </body>
</html>
```

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 your code, explaining what your code does in each section.
- Submit your single JavaScript file using Canvas under the appropriate assignment name.