

Day 2 Lab Assignments

Please do the following assignments:

1. Ask the user to enter his Email, and use function strings to check if the Email contains @, and not in the first or last index.
2. Create a function that takes two strings as arguments and returns the number of times the first string (the single character) is found in the second string.

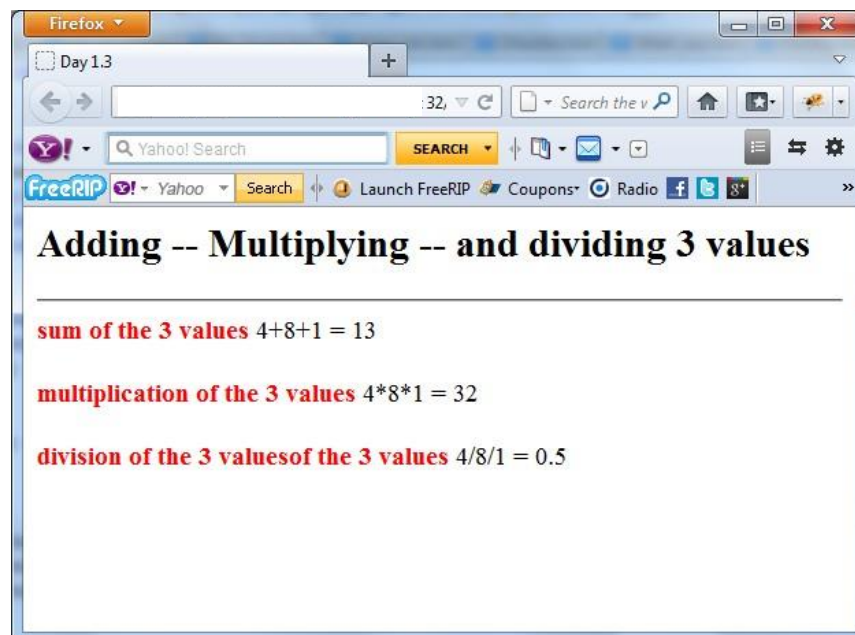
Examples

`charCount("a", "edabit") → 1`

`charCount("b", "big fat bubble") → 4`

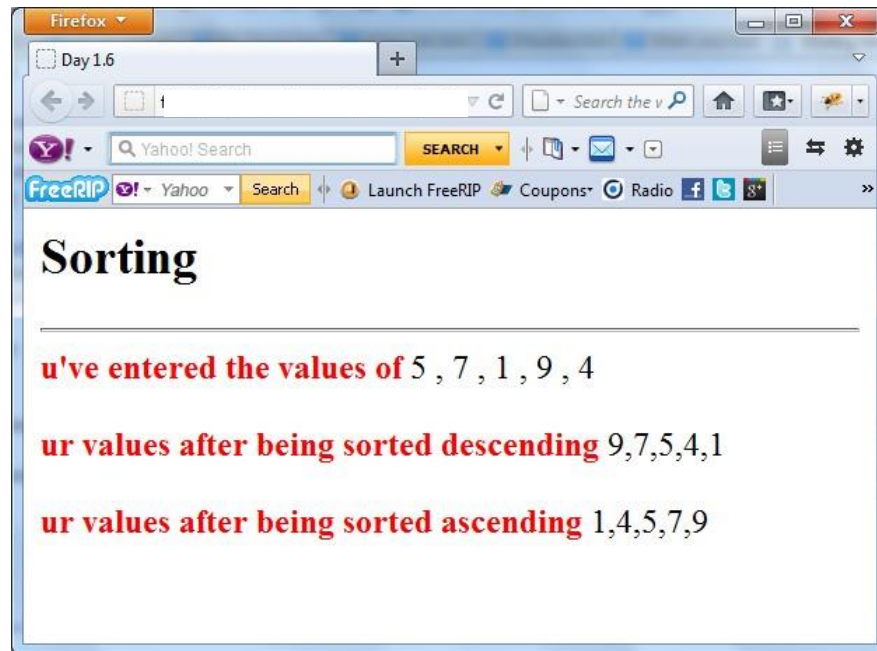
`charCount("c", "Chamber o secrets") → 1`

3. Fill an array of 3 elements from the user, and apply each of the following mathematical operations on it (+, *, /).
Format the output as shown in Fig.



4. Fill an array (5 numerical values) from the user, Sort it in descending and ascending orders then display the output as shown in Fig.

Write a script that ask the user to



- 5- Enter the value of a circle's radius in order to calculate its area as shown in fig.

What is the value of your circles raduis

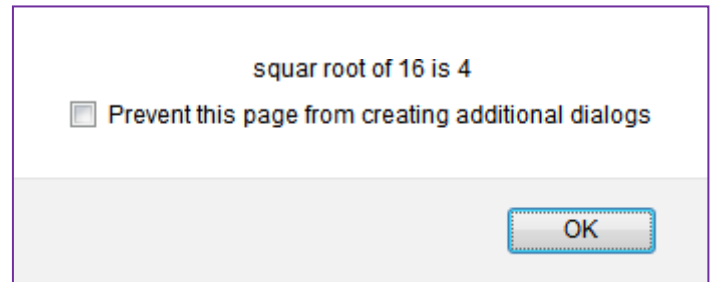
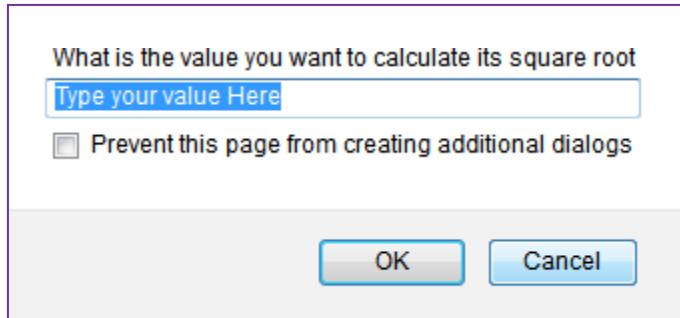
OK Cancel

Total area of the circle is 78.53981633974483

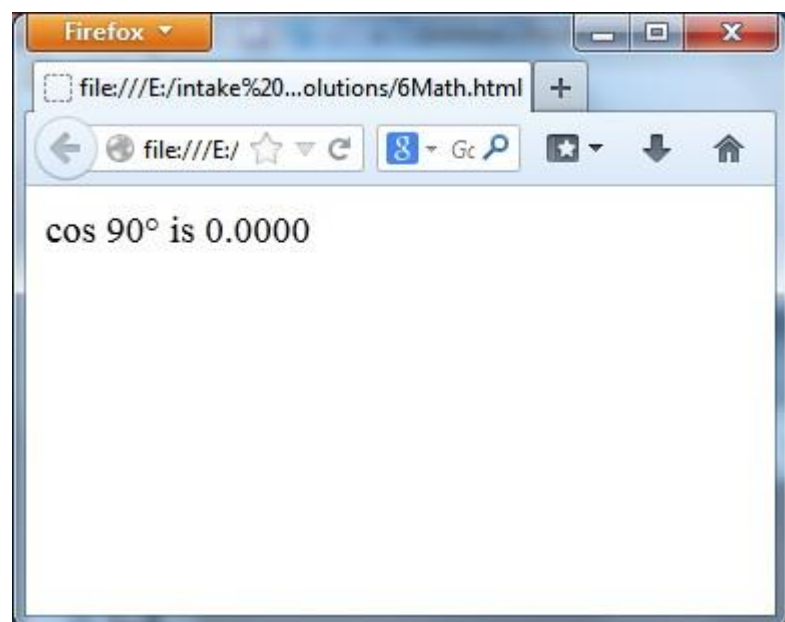
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OK

6- Enter another value to calculate its square root and alert the results as shown in fig.



7- Enter an angle to calculate its cos value then display the output as shown in Fig.



Bonus assignments:

- 1- Make a function that takes date string as a parameter, and returns the Day name (Saturday, Sunday,...) of the given date.

- 2- Ask the user to enter his birth date, and then choose the color he want to use to display his birthdate with it (Give him choices: (r) red, (b) blue, (g) green) and he enters the letter of color and use associative array to map his entered letter to color (if he entered r, use red color,...etc), and then display this text: "Current Date:" in bold font, and next to it the current date value in local format using the color he choose. (Don't use HTML tags, and don't use if condition or switch to check the color).
- 3- In previous assignment No, make the function if user entered date format is correct initialize the date object with this date and make the function return the date object, and if it isn't in correct format throw an exception, and use another function to call the previous function and handle this exception using (Try Catch), and show alert that shows description for the error if the date entered by user isn't valid.
- 4- Try to handle the previous exception using onError Event.

<Script> document.write("Thank YOU") </Script>