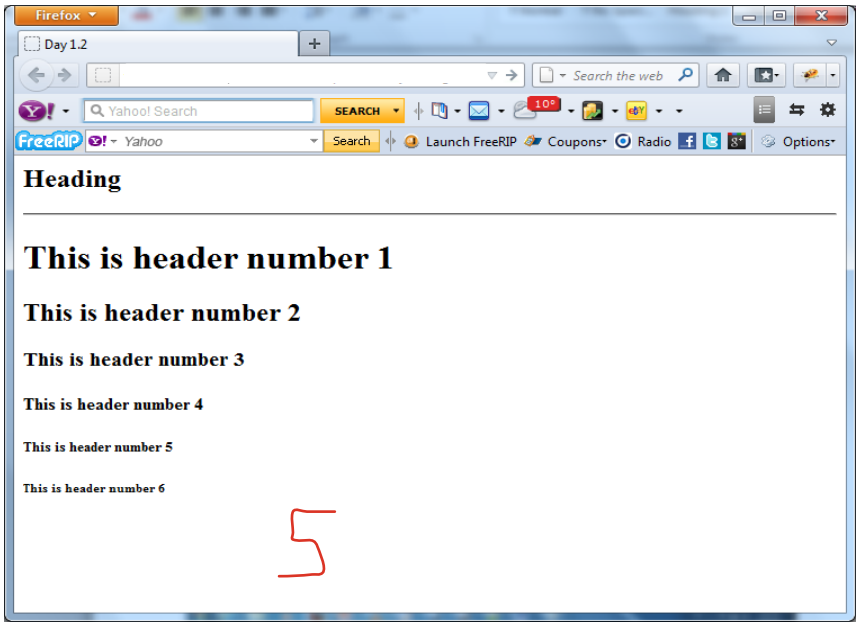
1. Basics

1.1. Ask the user to enter a message then display it using the different html heading tags (from <h1> to <h6>) using Loops. DO NOT write the header element explicitly in your script!



1.2. Write a script that takes from the user n values and returns their sum, stop receiving values from user when he enters 0 or sum exceeds 100, check that the entered data is numeric and inform the user with the total sum of the entered values.

2. String, Date and RegExp Objects

2.1. Write a script that accepts a string from user through prompt and count the number of 'e' characters in it.

2.2. Write a script to determine whether the entered string is palindrome or not. Request the string to be entered via prompt, ask the user whether to consider case sensitivity of the entered string or not via confirm, handle both cases in your script

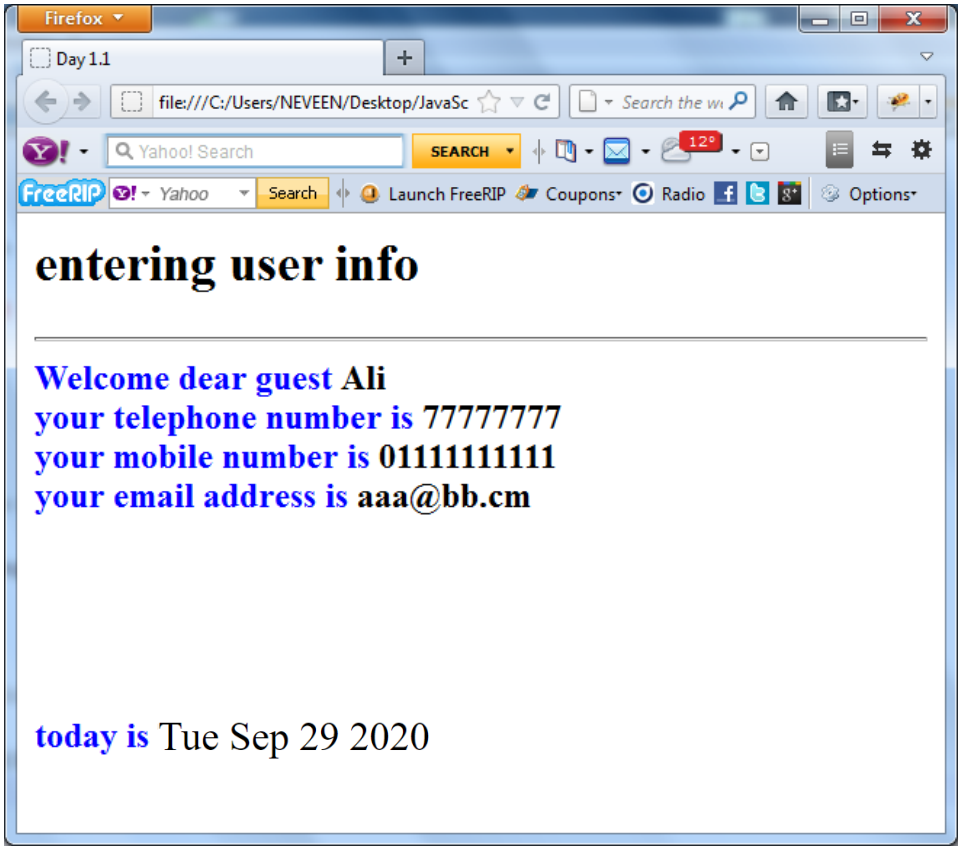
i.e. RADAR NOON MOOM are palindrome.

Note: raDaR is not a palindrome if user requested considering case of entered string, it will be palindrome if user requested ignoring case sensitivity.

2.3. Write a script that reads from the user his info; validates and displays it with a welcoming message with today's date

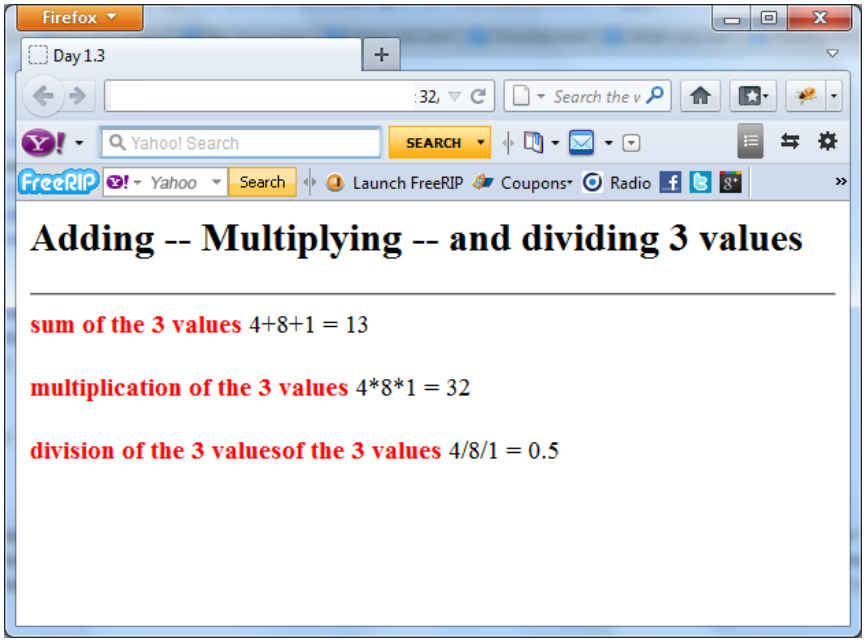
Parameter	Validation
Name	Should be character, i.e Not a number
Phone Number	Should be number, with length = 8
Mobile Number	Should be numbers, with length =11 and starts with (010|011|012) RegExp) (Bonus)
Email	Should use regular exp. To validate that the email is formatted correctly.(abc@123.com). (Use RegExp).

Use coloring format according to user's choice. The user has to choose either red, green or blue color, take his choice via prompt.

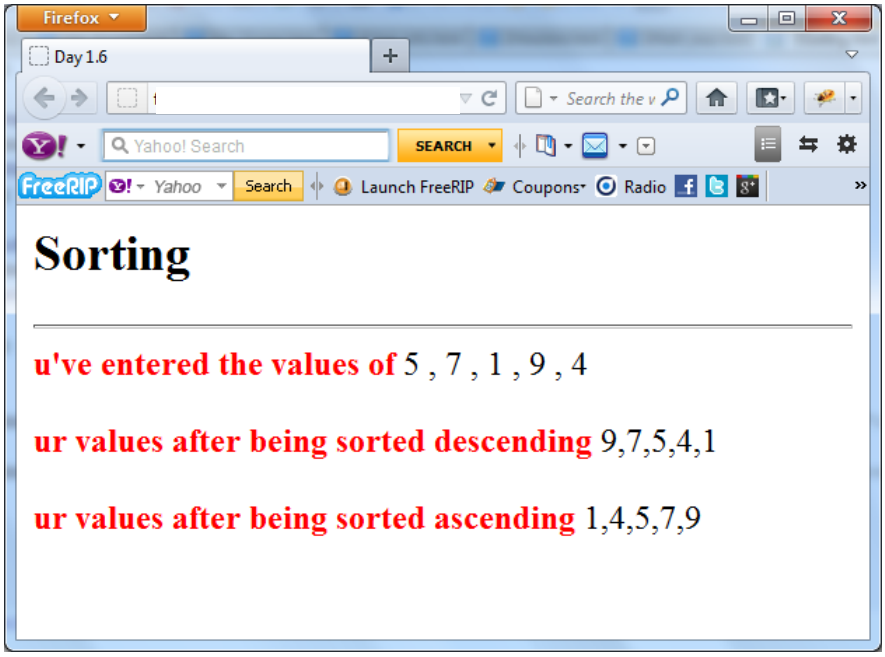


3. Array Object

3.1. 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.



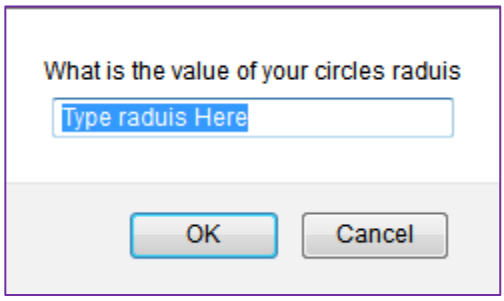
3.2. Fill an array (5 numerical values) from the user, Sort it in descending and ascending orders then display the output as shown in Fig.

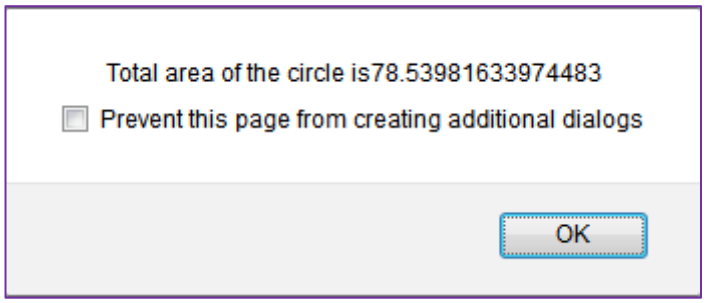


4. Math Object

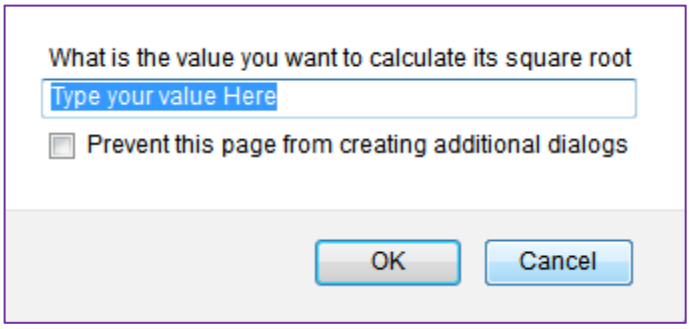
Write a script that ask the user to

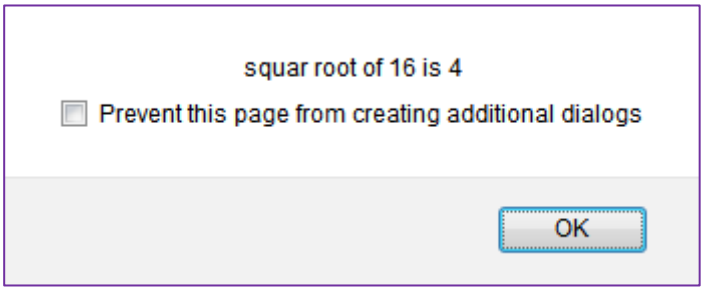
- **Enter the value of a circle's radius in order to calculate its area as shown in fig.**





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





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