Client-Side Technologies

JavaScript Fundamentals Day2

1.String object

1.1 Write a script to determine whether the entered string is palindrome or not. Ask the user whether to consider case of the entered string or not, 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.

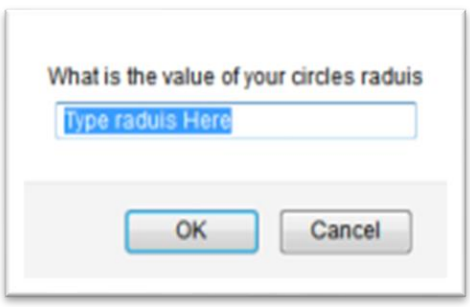
1.2 write a script that accepts a string from user through prompt and count the number of 'e' characters in it.

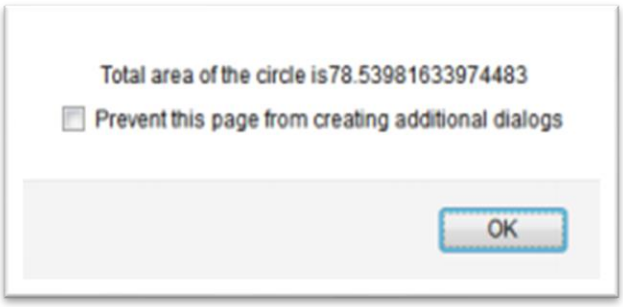
1.3 Write a script that reads from the user his info; validates and displays it with a welcoming message.

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) (Use RegExp)
Email	Should use regular exp. To validate that the email is formatted correctly.(abc@123.com). (Use RegExp).

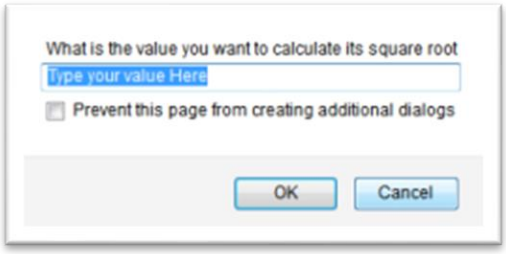
2. Math Object

2.1 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.





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

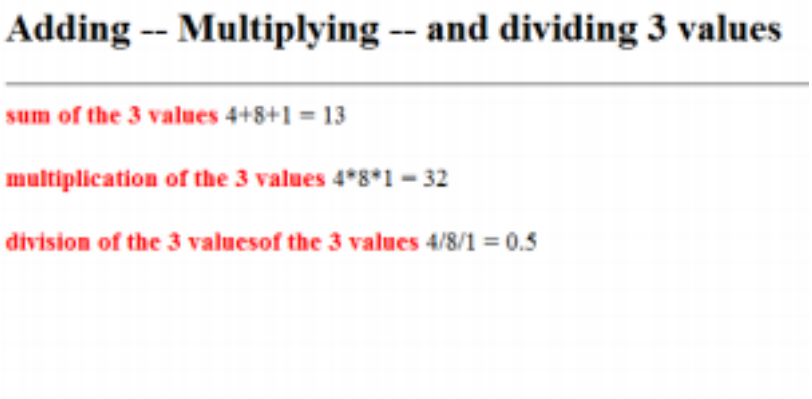


3. Date Object

3.1 Ask user to enters the date in prompt make sure that it is in correct format, then alert the Day name (Saturday, Sunday,…) of the given date.

4. 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.



5. Function

1- Create a function that accepts only 2 parameters and throw exception if number of parameters either less than or exceeds 2 parameters

2- Write a function that takes any number of parameters and returns them reversed using array's reverse function.

3- Write your own function that can add n values ensure that all passing parameters are numerical values only

4- Show prompt that ask user to enter his birth date and tell user to enter the date in the following format (DD – MM – YYYY) ex. 22–01–1999, and then create function that take user input as a parameter and ensure that the string is entered in this format (that user entered string is 10 characters and contains (-) after the second character and after fifth character).[Don't use RegExp, use string functions].

   a. If the user input was correct: make the function create new date object, and initialize it with Day, Month, year values (using date constructor: Date(y,m,d)) and then show alert to the user with the date in date string format.
   b. If user input wasn't correct, show alert saying "Wong Date Format".

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

Bonus

1- On contact page prompt user to enter his name, make sure that name is string, and let the user enter his birth year and make sure that it is a number, and it is less than 2010, and then calculate his age. For each prompt if user input valid show him next prompt, if not valid show him the same prompt again until user enters it correctly (use

loops). And after validating user input, write all user input on the page in that format:

Name: ahmed

Birth year: 1981

Age: 3