**Java Script lab Exercises-1**

* Define a function max() that takes two numbers as arguments and returns the largest of them. Use the if-then-else construct available in Javascript.
* Define a function maxOfThree() that takes three numbers as arguments and returns the largest of them.
* Write a function that takes a character (i.e. a string of length 1) and returns true if it is a vowel, false otherwise.
* Write a function translate() that will translate a text into "rövarspråket". That is, double every consonant and place an occurrence of "o" in between. For example, translate("this is fun") should return the string "tothohisos isos fofunon".
* Define a function sum() and a function multiply() that sums and multiplies (respectively) all the numbers in an array of numbers. For example, sum([1,2,3,4]) should return 10, and multiply([1,2,3,4]) should return 24.
* Define a function reverse() that computes the reversal of a string. For example, reverse("jag testar") should return the string "ratset gaj".
* Represent a small bilingual lexicon as a Javascript object in the following fashion {"merry":"god", "christmas":"jul", "and":"och", "happy":gott", "new":"nytt", "year":"år"} and use it to translate your Christmas cards from English into Swedish.
* Write a function findLongestWord() that takes an array of words and returns the length of the longest one.
* Write a function filterLongWords() that takes an array of words and an integer i and returns the array of words that are longer than i.
* Write a function charFreq() that takes a string and builds a frequency listing of the characters contained in it. Represent the frequency listing as a Javascript object. Try it with something like charFreq("abbabcbdbabdbdbabababcbcbab").
* Design a calculator using java script.
* Write a script that asks the user for a series of names until the user hits the cancel button. The script then sorts the names in alphabetical order and prints the names in an ordered list.
* Write a script that asks the user how many random numbers they wish to generate. The script then generates the numbers and calculates the average of the numbers and returns the results to the user.
* Create registration form webpage for your site with the following form fields - Name, User name, password and confirm password (both must be the same), year of birth and email, a checkbox for the use to select that he/she agree to the terms and conditions of the website.  
  Validations to do on this page:
* check if both the passwords are the same.
* check if user name, password, confirm password, email are not empty and checkbox is selected.
* Password and confirm password are the same.
* Email is in the correct format.
* Year of birth should be between 1900 and 2000 and must be four digits only.
* Write the XHTML tag and event handler to pop up an alert message that says "Welcome" when the user clicks a button.
* Write the XHTML tag and event handler to pop up an alert message that says "Welcome" when the user moves the mouse pointer over a link that says "Hover for a welcome message".
* Create a form that asks the user to enter their name, age, and hometown. When the user presses the Submit button, call a JavaScript function. The JavaScript function should perform the following actions:
* display the user's name and year they were born (depending on actual date of birth) on the webpage below the form.
* display a link to Google (or Bing) search results for the name of their hometown.
* Use JavaScript to create a rollover image. Choose two images with the same size. Display one image. When the mouse passes over the image, change it to the second image. When the mouse leaves the image, change back to the original image.