Assignment 4 – JavaScript Homework

Write, test, and debug (if necessary) JavaScript scripts for the following problems. When required to write functions, you must include a script to test the function with at least two different data sets. In all cases, for testing, you must write an XHTML file that references the JavaScript file. When finished, zip all of your scripts & html files and submit the zipped file to the Assignment 4 dropbox. Naming for this assignment should be YourLastname4.zip for the zip file. For each exercise, they should be labeled ex1.js, ex1.html, ex2.js, ex2.html, etc.

1. Input a line of text using prompt. Output the words of the input text in alphabetical order on the web page using document.write.
2. Modify the script from #1 to get a second input from the user, which is either "ascending' or "descending". Use this input to determine how to sort the input words.
3. Write a function called e_names. The parameter to the function is an array of names, represented as strings. The function returns the number of names in the given array that end in either "ie" or "y".
4. Write a function called counter. The parameter to the function is an array of numbers. The function returns the numbers of negative elements, zeros, and positive elements in the given array.
5. Write a function to determine whether a string is in the proper form for a zip code in either of the formats 99999 or 99999-9999 (a 9 represents a digit). The function should return true if the zip code is valid and false otherwise.
6. Write a function to test a date for a valid format. (Don't worry about testing for a valid month, day or year). Only test for a valid format -- i.e. in the form 99/99/9999 or or 9/9/9999 or variations thereof. Again, a 9 represents a digit.