Assignment #1

1. The following data represents some sample data of the number of children in several families:

    1 3 5 0 4 6 7 3 5 2 4 0 2 999

    999 is the dummy value which terminates the data. Write a JavaScript program to read in any data in the above format, and print:

        a. The number of families with no children; and
        b. The largest number of children existing in any family.
        c. Hint: use a prompt dialog box

2. Write a JavaScript program to read in FOUR (4) numbers and print the highest and lowest number.

3. Write a JavaScript program to find the Fibonacci numbers between 0 and 10.

4. Write a JavaScript program to read N integers. For each of the N integers, the algorithm must count and print the number of zero and non-zero values.

5. Write a JavaScript program to read a set of positive Integers (terminated by 0) and print their average as well as the largest of the set.

6. Write a simple function (less than 80 characters) that returns a Boolean indicating whether or not a string is a palindrome.

7. Write a function that gets the textual content of any HTML paragraph element using it's id attribute value.

8. What are the valid scopes of a variable in JavaScript?

9. What is an anonymous function? Give two examples

10. Can you assign an anonymous function to a variable?

11. Can you pass an anonymous function as an argument to another function?

12. What is the arguments object in JavaScript?

13. How can you get the type of arguments passed to a function?

14. How can you get the total number of arguments passed to a function?

15. How can you get the reference of a caller function inside a function?

16. What is the purpose of 'this' operator in JavaScript?

17. What is the 'typeof' operator used for?

18. What is the 'instanceof' operator?

19. Explain the difference between '==' and '==='?

20 What is an undefined value in JavaScript?

21. What are escape characters?

22. What is the difference between ".call()" and ".apply()"?

23. What are event handlers? Give two examples