# Web Development using JavaScript (SEC) Practical Assignment 1

1. Reverse a number.

2. Write a program to convert temperatures to and from Celsius, Fahrenheit.

3. Check if input number is prime or not.

4. Write a program to calculate the factorial of a number using recursion.

## String

5. Check if string is palindrome or not.

6. Write a function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.

7. Write a program to get the extension of a filename.

8. Write a function that accepts a string as a parameter and find the longest word within the string.

## Date

9. Write a JavaScript function to add specified minutes to a Date object.

10. Write a program to determine whether a current year is a leap year or not.

11. Write a JavaScript function to get difference between two dates in days.

12. Write a JavaScript program to calculate age from birth date.

## Arrays

13. Write a program to find the largest of five numbers. Display an alert box to show the result.

14. Write a program to compute the sum of an array of integers.

15. Write a program for binary search.

16. Write a merge sort program.

17. Write a program to join all elements of the given array into a string using given delimeter.

*Input array* : myArr = ["str1", " str2", " str3"];
*Output* :
"str1, str2, str3" OR
" str1+ str2+str3"

18. Write a program to convert string to array. (Reverse of above program)

19. Decompose parts of input URL.

   e.g.

   Input: http://www.google.com/page1.html

   Output:

   Protocol: http

   Domain: www.google.com

   Page: page1

   Extension: html


   **<u>DOM</u>**

20. Write a JavaScript function to get the value of the all the attributes( href, hreflang, rel, target, and type attributes) of the specified hyperlink and image

21. Write a JavaScript function to add rows to a table.

22. Write a program to count and display all H1 elements on the document.

23. Write a program to change color of all paragraphs as per input given in text box.

24. Write a program to change dimensions (height and width) of the image as per input given in text boxes

25. Write a program to display all the elements(textbox, radio etc.) of a form along with their values.

26. Write a program to count and display the items of a dropdown list, in an alert window.

27. Write a program to populate a combo using given array elements.

28. Write a JavaScript program to get the width and height of the window (any time the window is resized).

29. Validate a form using JavaScript. Display error message in red color. If no errors, show success message in green color. Form should contain following fields.

Name (should not be blank), age (15 to 20), gender (required field)