

#### **Ex.No.4: Programs using Java Script – Part III**

4.a. Write a JavaScript program to perform the following String Manipulation Operations with and without using the methods of String Object.

- I. To search for the first occurrence of a substring in a given string
- II. To return the character at a specified index
- III. To concatenate two string objects

4.b. Write a JavaScript that inputs text from an XHTML form and outputs it in Upper case and Lower case letters.

4.c. Write a JavaScript that reads a Five-Letter word from the user and produces all possible Three-Letter words that can be derived from the letters of the Five-Letter word.

For example, the three-letter words produced from the word “bathe” include the commonly used words : ate bat bet tab hat the tea

4.d. Write a JavaScript to display the current time and print the message according to the time. For example, Good Morning in Morning, Good After Noon in Noon, Good Evening in evening and Good Night in Night.

4.e. Write a JavaScript program to perform Merge Sort for a given set of N numbers dynamically prompted from the user. (Use user defined function to perform Merge Sort).

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