Ex.No.4:   Programs using Java Script – Part II

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 last occurrence of a substring in a
      given string
   II. To extract a substring from a given string
   III. To split the given string into various substrings

4.b. i. Write a JavaScript to display the Date (as a number), Day (as a
   string), Month (as a string) and Year (as a four digit number) that
   is seven days before and after the Current Date.

   ii. Write a JavaScript that inputs the date of birth from the user
   dynamically and display the current age of the user in the following
   format :   (----Years, ----Months, ----Days).

4.c. Write a User-Defined function in Java Script to perform Binary

   search. Get the 'N' number of elements dynamically from the user.

      The user have to enter the key value to be searched through the

   HTML form as designed below. When the user clicks the OK button,

   the search result should be displayed in the corresponding text field as

   either FOUND at "Index" – if the search key is present or NOT

   FOUND – if the search key is not present.

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┌─────────────────────────────────────────────────┐
│                                                 │
│              BINARY SEARCH                      │
│                                                 │
│                                                 │
│   Enter the Search Key    :   ┌──────────────┐  │
│                               └──────────────┘  │
│   Search Result           :   ┌──────────────┐  │
│                               └──────────────┘  │
│                                                 │
│                         ┌──────────┐            │
│                         │   OK     │            │
│                         └──────────┘            │
│                                                 │
└─────────────────────────────────────────────────┘
```

4.d. Write a Java Script program to get N number of strings dynamically from the user and arrange them in alphabetical order. Display the strings in sorted order and also display those strings that begin with 'e' / 'E'.

4.e. write a JavaScript that reads several lines of text and prints a table indicating the number of one-letter words, two-letter words, three-letter words, etc. appearing in the text, in a tabular form.

For example, the sentence **Welcome to "Java" Lab.** contains:

Word Length	Occurrences
1	0
2	1
3	0
4	1
5	0
6	1
7	1