**Practical No. 5: Develop Javascript to implement strings**

1. **Practical Significance:** The JavaScript string is an object that represents a sequence of characters.

### Relevant Program Outcomes (POs):

* Basic knowledge: Apply knowledge of basic mathematics, sciences and basic engineering to solve the computer group related problems.
* Discipline knowledge: Apply Computer Programming knowledge to solve the computer group related problems.
* Experiments and practice: Plan to perform experiments and practices to use the results to solve the computer group related problems.
* Engineering tools: Apply relevant Computer programming / technologies and tools with an understanding of the limitations.
* Individual and Team work: Function effectively as a leader and team member in diverse/multidisciplinary teams.
* Communication: Communicate effectively in oral and written form.

1. **Competency and Practical skills:**
2. Write a simple Javascript to implement strings

### Relevant Course Outcome(s):

Implement arrays and functions in Javascript.

### Practical Outcome (PrOs):

1. Develop Javascript to use string methods

### Relevant Affective domain related Outcome(s):

* 1. Follow safety practices.
  2. Practice good housekeeping
  3. Demonstrate working as a leader/ a team member.
  4. Follow ethical practices.

1. **Minimum Theoretical Background:**

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| Methods | Description |
| [charAt()](https://www.javatpoint.com/javascript-string-charat-method) | It provides the char value present at the specified index. |
| [charCodeAt()](https://www.javatpoint.com/javascript-string-charcodeat-method) | It provides the Unicode value of a character present at the specified index. |
| [concat()](https://www.javatpoint.com/javascript-string-concat-method) | It provides a combination of two or more strings. |
| [indexOf()](https://www.javatpoint.com/javascript-string-indexof-method) | It provides the position of a char value present in the given string. |
| [lastIndexOf()](https://www.javatpoint.com/javascript-string-lastindexof-method) | It provides the position of a char value present in the given string by searching a character from the last position. |
| [search()](https://www.javatpoint.com/javascript-string-search-method) | It searches a specified regular expression in a given string and returns its position if a match occurs. |
| [match()](https://www.javatpoint.com/javascript-string-match-method) | It searches a specified regular expression in a given string and returns that regular expression if a match occurs. |
| [replace()](https://www.javatpoint.com/javascript-string-replace-method) | It replaces a given string with the specified replacement. |
| [substr()](https://www.javatpoint.com/javascript-string-substr-method) | It is used to fetch the part of the given string on the basis of the specified starting position and length. |
| [substring()](https://www.javatpoint.com/javascript-string-substring-method) | It is used to fetch the part of the given string on the basis of the specified index. |
| [slice()](https://www.javatpoint.com/javascript-string-slice-method) | It is used to fetch the part of the given string. It allows us to assign positive as well negative index. |
| [toLowerCase()](https://www.javatpoint.com/javascript-string-tolowercase-method) | It converts the given string into lowercase letter. |
| [toLocaleLowerCase()](https://www.javatpoint.com/javascript-string-tolocalelowercase-method) | It converts the given string into lowercase letter on the basis of host’s current locale. |
| [toUpperCase()](https://www.javatpoint.com/javascript-string-touppercase-method) | It converts the given string into uppercase letter. |
| [toLocaleUpperCase()](https://www.javatpoint.com/javascript-string-tolocaleuppercase-method) | It converts the given string into uppercase letter on the basis of host’s current locale. |
| [toString()](https://www.javatpoint.com/javascript-string-tostring-method) | It provides a string representing the particular object. |
| [valueOf()](https://www.javatpoint.com/javascript-string-valueof-method) | It provides the primitive value of string object. |

1. **Resources required**

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| Sr. No. | Name of Resource | Broad specification | Quantity | Remark (If any) |
| 1 | Computer System | Computer (i3-i5 preferable), RAM minimum 2 GB and onwards | As per batch size | For all Experiments |
| 2 | Operating System | Windows / Linux |
| 3 | Development Software | Browser and Notepad/any Text Editor  Free Webpage Designing Tool  Any IDE |

1. **Resources used**

| S. No. | Name of Resource | Broad Specification | Qty | Remarks (If any) |
| --- | --- | --- | --- | --- |
|  | Computer System  with broad specifications | Intel Core –i5  RAM – 8 GB | 1 PC / Student |  |
|  | Operating System | Windows 10 |  |
|  | Development Software | MicromediaDreamviewer 8 |  |

1. **Result**

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1. **Conclusion**

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| Marks Obtained | | | Dated Signature of Teacher |
| Process Related ( 10 ) | Product Related ( 15) | Total ( 25 ) |  |
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