Array Methods

- **pop(): Remove the last element from an array**

- **push(): Add a new element at the end of the array**

- **sort(): Sort the elements in alphabetical order**

- **reverse(): Sort the elements in descending order**

- **shift(): Remove the first element from an array**

- **toString(): Convert elements to strings**

- **unshift(): Add a new element at the start of an array**

- **concat(): Merge several arrays into one**

- **join(): Combines the elements of an array into a single string and returns the string**

- **slice(): Copy part of an array to a new array**

- **splice(): Is used to modify the contents of an array by removing existing elements and / or adding new elements.**

- **valueOf(): Returns the primitive value of the specified object**

- **indexOf(): Returns the first index at which the given element can be found in an array, or -1 if it is not present in an array.**

- **lastIndexOf(): Returns the last index at which the given element can be found in an array, or -1 if it is not present in an array.**

Methods for displaying the output data

- alert(): Show output to a browser dialog box

- confirm(): Opens a yes/no dialog and returns true/false depending on the user's click

- console.log(): Displays the output to the browser console, useful for debugging

- document.write(): Writes directly to the HTML document

Global functions

- isNaN(): Determines if a value is NaN (Not a Number) or not

- Number(): Converts the argument to a number representing the value of the object. If the value cannot be converted to a number, NaN is returned.

- eval(): Evaluates the JavaScript code represented as a string

- encodeURI(): Encode a URI in UTF-8

- decodeURI(): Decode a URI created by encodeURI () or other functions

- decodeURIComponent(): Decode a URI component

- parseInt(): convert a character string into an integer

- parseFloat(): convert a string to a floating point number

- isFinite(): Determines if the transmitted value is a finite number

Methods of the String object

- **match(): Retrieves the matches of a string based on a search pattern**

- **search(): Searches a string for the specified value and returns the position of the match.**

- **toLowerCase(): Convert a character string to lowercase**

- **toUpperCase(): Convert a character string to uppercase**

- **indexOf(): Provides the position of the first occurrence of a specified text in a string**

- **charAt(): Returns the character at the specified position in the string**

- concat(): Concatenates two or more strings into one

- charCodeAt(): Returns the unicode value of a character at the specified position

- indexOf(): Provides the position of the first occurrence of a specified text in a string

- lastIndexOf(): Provides the position of the last occurrence of a specified text in a string

- slice(): Extracts part of a string and returns it as a new string

- split(): Splits a character string into an array of substrings according to a separator

- substr(): Like slice() but extracts a substring according to the number of

characters specified

- substring(): Like slice() but cannot accept negative indexes

- replace(): Find and replace specific text in a string

Mathematical methods

- random(): Returns a random number between 0 and 1

- round(x): Round the value of x to its nearest integer

- pow(x, y): X to the power of y

- exp(x): Exponential of x

- log(x): The natural logarithm (base E) of x

- max(x, y, z,..., n): Returns the maximum

- min(x, y, z,…, n): Returns the minimum

- abs(x): Returns the absolute value of x

- sqrt(x): The square root of x

- cos(x): The cosine of x

- sin(x): The sine of x

- tan(x): The tangent of x

- ceil(x): Round the value of x to the nearest integer

- Methods for manipulating dates/times in Javascript

- getDate(): Get the day of the month as a number (1-31)

- getDay(): The day of the week as a number (0-6)

- getFullYear(): Year as a four-digit number (yyyy)

- getHours(): Returns the hour (0-23)

- **getMilliseconds(): Returns the milliseconds (0-999)**

- **getMinutes(): Returns the minutes (0-59)**

- **getMonth(): Returns the month as a number (0-11)**

- **getSeconds(): Get seconds (0-59)**

- **getTime(): Get milliseconds since January 1, 1970**

- **getUTCDate(): The day of the month on the date specified according to universal time.**

- **setDate(): Set the day as a number (1-31)**

- **setFullYear() : Set the year**

- **setHours(): Set the hour (0-23)**

- **setMilliseconds(): Set milliseconds (0**

to 999)

- setMinutes(): Set minutes (0-59)

- setMonth(): Set month (0-11)

- setSeconds(): Set seconds (0-59)

- setTime(): Set the time (in milliseconds since January 1, 1970)

- setUTCDate(): Sets the day of the month for a specified date based on universal time

DOM Methods

- appendChild(): Adds a new node as the last child of a parent node.

- removeChild(): Remove a child node

- replaceChild(): Replaces a child node

- cloneNode(): Clones an HTML element

- **isEqualNode(): Checks if two nodes are equal**

- **isSameNode(): Checks if two nodes are identical**

- **hasAttribute(): Returns true if the element has attributes, otherwise false**

- **removeAttribute(): Removes the attribute of the specified element**

- **setAttribute(): Sets or modifies the value of the specified attribute**

- **getElementsByTagName(): returns a collection of elements with the name of the specified tag.**