Window Object Brief

# Week 3 Day 5 19/5/23

# Window Object Brief

* The window object in JavaScript represents the global window or browser window that contains the web page.
* It is a fundamental part of the Document Object Model (DOM) and provides a JavaScript interface for interacting with the browser window and its content. (more on next week)

# Jargon in Object

# What is Property in Object?

# •A property is a value associated with an object. It represents some characteristic or data associated with the object.

# •Properties can hold any type of value, such as numbers, strings, arrays, or even other objects.

•You can access and modify properties of an object using the dot notation or square bracket notation.

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What is **Method** in Object?

•A method is a function that is associated with an object. It represents actions or behaviors that the object can perform.

•When a method is called, it is executed within the context of the object it belongs to.

**‼️** You can say add () is a property of the 'calculator' object that holds a function value; however, we call the add () function is a method of the 'calculator' object.

# Properties & Methods of Window Object

The window object provides a range of properties and methods that enable interaction with the browser window.

Properties example:

•Get or set the current URL -> window.location

•Access the browser's history -> window.history

Methods example:

•Display alerts or prompts to the user ->window.alert( ),window.prompt( )

# Alerts –JavaScript in the browser

* alert()instructs the browser to display a dialog with an optional message, and to wait until the user dismisses the dialog.

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* Example:

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* Used for messages which do not require any response on the part of the user, other than the acknowledgement of the message.

# alert () is a function or a method?

* In JavaScript, the alert() function is a method of the window object.

What about the function we created in the JavaScript file?

# Some common string methods

*toLowerCase()*

* + - * A string’s toLowerCase method in JavaScript returns a copy of the string with its letters converted to lowercase.

toUpperCase()

* + - * A string’s toUpperCase method returns a copy of the string with its letters converted to capitals. Note: Numbers, symbols, and other characters are not affected.

trim ()

* + - * A string’s trim method returns a copy of the string with beginning and ending whitespace characters removed.

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# String Method

Why we call it String Method?

I thought Methods are only exist in Object

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# String.split()

The split()method takes a pattern and divides a String into an ordered list of substrings by searching for the pattern, puts these substrings into an array, and returns the array..

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# Exercise

1. Prompt the user to enter a sentence and store the value in a variable called userMessage.
2. Use the trimmethod and store the result in a variable.
3. Create a conditional statement that checks the following:
   1. Checks the lengthof the trimmed string and returns a different string based on the following conditions
      1. If the lengthof the string is <= 10, alertthe user with the uppercase version of the string
      2. If the lengthof the string is > 10, alertthe user with the lowercase version of the string.

