# **Document and Window Objects**

Document Object

* The document object is represent the HTML document loaded in the browser window.
* Its provides access to the content and structure of the web page, allows the manupolution of HTML elements, such as selection elements, modifying the contents or attributes and adding or removing elements dynamically.
* It includes Properties and Methods.
* The Document object property of the Window object, its mean you can access it

Window.document or document.

* The document is part of BOM ( Browser Object Modal ) and DOM ( Document Object Modal ).

**Properties**

1. Document.title 🡪 get or sets the title of the document.
2. Document.body 🡪 returns the <body> element of the document.
3. Document.documentElement 🡪 returns the <html> element of the document.
4. Document.head 🡪 returns the <head> element of the document.
5. Document.link 🡪 returns a collection of all <a> elements with a ‘href’ attributes in the document.
6. Document.image 🡪 returns a collection of all <img> elements in the document.
7. Document.forms 🡪 returns a collection of all <form> elements in the document.
8. Document.styleSheets 🡪 returns a collection of all the CSS style sheets associated with the document.
9. Document.cookie 🡪 gets or sets cookies associated with the document.
10. Document.URL 🡪 return the URL of the the document.
11. Document.domain 🡪 gets or sets domain portion of the URL of the document.
12. Document.readyState 🡪 returns the loading status of the document (“loading”, “interactive”, “complete”).

**Methods**

1. Document.getElementById(id) 🡪 returns the element with the specified id attribute.
2. Document.getElementByClassName(className) 🡪 returns the collections of element with the specified class name.
3. Document.getElementByTagName(tagName – h1) 🡪 returns the collections of elements with specified tag name.
4. Document.querySelector (selector) 🡪 returns the first elements that matches the specified CSS selector.
5. Document.querySelectorAll(selector) 🡪 returns the node list of elements that matches the specified CSS selector.
6. Document.createElement(tagName) 🡪 creates new element with specified tag name.
7. Document.createTextNode(text) 🡪 creates new text node with specified text.
8. Document.write() 🡪 write HTML expressions or javascript code to the document.
9. Document.open() 🡪 opens a document for writing.
10. Document.close() 🡪 close the document opened by ‘documenet.open()’.

Window Object

* Window objects represent the browser window and it’s the global object in client side javascript.
* It’s provides the access to browser related functionalities such as navigation, re-sizing, opening / closing new window or tabs.
* It includes Properties and Methods.
* The window object serve as global scope for JavaScript code running in the browser, so variables and functions declared without var, let, const keywords.
* The window is part of BOM, not a DOM.

**Properties**

1. Window.document 🡪 represent DOM document loaded in the window.
2. Window.innerWidth / window.innerHeight 🡪 returns the inner width and height of the browser.
3. Window.outerWidth / window.outerHeight 🡪 returns the outer width and height.
4. Window.localStorage / window.sessionStorage 🡪 allows reading and writing data to the browser local and session storage.
5. Window.alert() 🡪 display an alert dialog box with specific message and Ok buttons.
6. Window.conform() 🡪 displays adialog box with message and Ok/Cancel buttons, returning a Boolean based on the user choice.
7. Window.promt() 🡪 display a dialog box with messagepromting the user to input text, returning the entred values.
8. Window.navigator 🡪 provide the information about the browser name, version, platform.
9. Window.location 🡪 provid e the information about the URL of current page and allows navigation to other pages.
10. Window.history 🡪 represents the session history.

**Methods**

1. Window.open() 🡪 open a new browser or tab.
2. Window.close() 🡪 close the current browser.
3. Window.setTimeout() 🡪 executes the functions or specified piece of code once after specified delay.
4. Window.clearTimeout() 🡪 cancel a timeout previously established by calling ‘setTiomeout’
5. Window.setInterval() 🡪 executes the functions or specified piece of code repeatedly at specified interval.