**Day 02**

**Document Vs Window Object**

**Difference between document and window:**

| **document** | **window** |
| --- | --- |
| It represents any HTML document or web page that is loaded in the browser. | It represents a browser window or frame that displays the contents of the webpage. |
| It is loaded inside the window. | It is the very first object that is loaded in the browser. |
| It is the object of window property. | It is the object of the browser. |
| All the tags, elements with attributes in HTML are part of the document. | Global objects, functions, and variables of JavaScript are members of the window object. |
| We can access the document from a window using the window. document | We can access the window from the window only. i.e. window.window |
| The document is part of BOM (browser object model) and dom (Document object model) | The window is part of BOM, not DOM. |
| Properties of document objects such as title, body, cookies, etc can also be accessed by a window like this window. document.title | Properties of the window object cannot be accessed by the document object. |
| syntax:        document.propertyname; | syntax:  window.propertyname; |
| example:       document.title :  will return the title of the document | example:  window.innerHeight : will return the height of the content area of the browser |

**Document Object:**

The document object represents a web page that is loaded in the browser. By accessing the document object, we can access the element in the HTML page. With the help of document objects, we can add dynamic content to our web page. The document object can be accessed with a **window.document**or just**document.**

**Syntax - document.property\_name;**

**Few Properties of document:**

* **baseURI**: It returns a string value that represents the base URI of the document.
* **URL**: It returns the complete URL of the document.
* **title**: It returns the title element of the document.
* **head**: It returns the head element of the document.
* **scripts**: It returns all script elements present in the document.
* **doctype**: It returns the document’s doctype.

Syntax for Document methods – document.method\_name;

**Few Methods of document:**

* **createElement(): It is used to create HTML element .**
* **createEvent(): It is used to create a new events object.**
* **getElementById(): It returns the object of the given ID. If no object with that id exists then it returns null.**
* **write(): It is used to write some content or javascript code in the document.**
* **addEventListener(): It is used to attach an event handler to the specified element.**

**Window Object:**

The window object is the topmost object of the DOM hierarchy. It represents a browser window or frame that displays the contents of the webpage. Whenever a window appears on the screen to display the contents of the document, the window object is created.

**Syntax - window.property\_name;**

**Few Properties of window:**

* **Document: It returns a reference to the document object of that window.**
* **History: It provides information on the URLs visited in the current window.**
* **Location: It contains the URL of the current window.**
* **Self: It provides another way to refer to the current window.**

Syntax for Window methods – window.method\_name;

**Few Methods of Window:**

**alert**(): It is used to display an alert box. It displays a specified message along with an OK button and is generally used to make sure that the information comes through the user.

**close**(): It is used for closing a certain window or tab of the browser which was previously opened.

**confirm**(): It is used to display a modal dialog with an optional message and two buttons i.e. OK and Cancel. It returns true if the user clicks “OK”, and false otherwise.

**open**(): It is used to open a new tab or window with the specified URL and name.

**stop**(): It is used to stop the window from loading resources in the current browsing context.