**DAY-2**

**Difference between Document and Window Object**

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| Key differences | Document | Window |
| Scope and purpose | Represents the HTML document loaded in the window. It is a property of the window object. | Represents the entire browser window. It is the global object in the browser. |
| Properties and Methods | Document has properties and methods related to the content of the web page (e.g., elements, structure, events). | Window has properties and methods related to the browser window itself (e.g., size, storage, dialogs). |
| Loading Sequence | The document object is created as part of the window object and represents the loaded HTML content. | The window object is created first when the browser loads a page. |

**The window Object:**

The window object represents the browser window or frame that displays the content of the web page. It is the global object in the browser environment, meaning all global variables and functions are properties of the window object.

Key Properties and Methods of window:

* innerWidth and innerHeight: Dimensions of the viewport.
* localStorage and sessionStorage: Storage mechanisms for data.
* alert(), confirm(), prompt(): Methods for displaying dialog boxes.
* setTimeout(), setInterval(): Methods for timing events.

Example:-

console.log(window.innerWidth);

window.alert("Hello, World!");

**The document Object:**

The document object represents the HTML document loaded in the browser window. It is a property of the window object and provides access to the content and elements of the web page.

Key Properties and Methods of document:

* getElementById(), getElementsByClassName(), querySelector(): Methods for selecting elements.
* createElement(), createTextNode(): Methods for creating new elements.
* body, head, title: Properties representing parts of the document.
* addEventListener(): Method for attaching event handlers to elements.

Example:-

const title = document.getElementById("title");

title.textContent = "New Title"; // Changes the text content of the element with id "title"