**1.write a blog on difference between document and windows objects**

**ANS:**

| **Aspect** | **Document Object** | **Window Object** |
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| Purpose | Represents the content and structure of a webpage | Represents the browser window or frame |
| Scope | Deals with the Document Object Model (DOM) | Global object for JavaScript within the browser |
| Manipulation | Allows manipulation of webpage content and structure | Facilitates browser window manipulation |
| Content Access | Provides access to elements within the document | Controls browser actions and navigation |
| Event Handling | Handles events related to DOM elements | Manages events related to the browser window |
| Examples of Usage | Changing text, adding/removing elements | Resizing window, opening new windows, timing tasks |

* The differences between Document and Window object in JavaScript, focusing on their roles, scopes, and functionalities,
* as they are essential components of the Document Object Model (DOM) for efficient web development.

Windows Object:

* The Window object is a global object in client-side JavaScript,
* representing the browser window containing a DOM document and acting as the root of the document object model.
* The window object, supported by all browsers, represents the browser’s window and automatically includes global JavaScript objects,
* functions, and variables as members.
* The Window object is responsible for managing global variables, functions, and objects, providing methods for browser interaction and managing properties related to frames,
* tabs, or windows, such as alert(), confirm(), setTimeout(), and setInterval().
* Few properties and methods of window objects .

Properties

window.innerHeight - the inner height of the browser window (in pixels)

window.innerWidth - the inner width of the browser window (in pixels)

Methods

window.open() - open a new window

window.close() - close the current window

window.moveTo() - move the current window

window.resizeTo() - resize the current window

Document Object:

* The Document object is the HTML document that appears in the browser window and serves as an interface for interacting with the web page’s content.
* The browser generates a Document Object Model of a web page upon loading it.
* The W3C Document Object Model (DOM) is a platform-neutral interface that enables dynamic access and updating of a document’s content, structure, and style by programs and scripts.
* The DOM is a logical tree in a document, with methods allowing programmatic access to change its structure, style, or content.
* The DOM manipulation tool offers methods to access and manipulate the structure and content of a document, such as getElementById(), querySelector(), createElement(), and innerHTML. It represents the entire HTML document as a node tree, with the Document object as the root node. It allows dynamic updates and interactions with web page content.
* Few properties and methods of Document Object Model,

Properties

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element.innerHTML = new html content//Change the inner HTML of an element

element.attribute = new value//Change the attribute value of an HTML element

Methods

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document.createElement(element//Create an HTML element

document.removeChild(element)//Remove an HTML element