Guvi-Zen-Day2-Tasks

**Question - 1 :**

Write a blog on Difference between Document and Window Objects ?

**Answer :**

| **Aspect** | **Document Object** | **Window Object** |
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| **Scope** | Represents the HTML document loaded in the browser window. | Represents the entire browser window or tab. |
| **Access in Browser** | Accessed within the context of the loaded document. | Accessed globally from any script in the browser window. |
| **Properties** | Contains properties related to the document structure, elements, and content (e.g., **getElementById**, **querySelector**, **title**). | Contains properties associated with the browser window (e.g., **location**, **history**, **setTimeout**). |
| **Methods** | Provides methods to interact with the document, such as modifying content, handling events, or querying elements (e.g., **createElement**, **addEventListener**). | Offers methods for managing the window, like opening new windows, navigating, and timing events (e.g., **open**, **close**, **setInterval**). |
| **Relationship** | Considered a property of the **window** object and is an interface to the loaded HTML document. | Represents the global environment in which scripts run and contains the **document** object. |
| **Hierarchy** | Nested within the **window** object. | Serves as the global object that encompasses the **document** object and other properties/methods. |
| **Lifecycle** | Created when an HTML document is loaded, allowing manipulation and access to its content. | Created when a browser window is opened and persists until the window is closed. |
| **Modifiability** | Can be manipulated and modified to change the content, structure, and styles of the loaded document. | Limited modifiability; it manages the window's properties and behaviours but cannot alter the loaded document directly. |
| **DOM Tree Manipulation** | Facilitates the creation, modification, and traversal of the Document Object Model (DOM) tree representing the document's structure. | Focuses on controlling the browser window, its properties, and methods for navigation and interaction. |
| **Use Cases** | Used to access and manipulate elements and content within an HTML document. | Utilized for handling window-related operations, navigation, and timing events, along with managing browser behaviour. |