**1. Write a blog on the difference between document and window objects.**

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| **window objects** | **Document objects** |
| * Represents the browser window and serves as the global object for JavaScript in the browser | * Represents the webpage loaded into the browser window, forming part of the Window object |
| * Accessed via window globally or directly without window prefix. | * Accessed through window, document or simply document. |
| * Manages the browser environment, handles navigation, manages child windows, timers, and browser-related functionalities. | * Represents the HTML document loaded in the window, allowing access and manipulation of its elements and content. |
| * Contains properties like window.location, window. History, window.navigator, etc. It also manages event listeners and methods related to browser functionalities. | * Provides access to elements on the page, allowing manipulation through methods like getElementById, querySelector, etc., and properties like document.title, document.body, etc. |
| * Represents the top-level scope accessible to all scripts on the webpage. | * **Nested within the Window object and represents the structure of the webpage/document.** * **Hierarchy:** |
| * Acts as the highest-level object in the browser's JavaScript environment, encompassing the entire browsing context. | * **Exists within the Window object, representing the structure and content of the loaded HTML document.** * **Interactions:** |
| * **Manages multiple documents (tabs/windows) and their interactions.** | * **Represents a single HTML document and its elements.** * **Event Handling.** |
| * **Manages global events affecting the browser, such as resizing, scrolling, or unloading.** | * **Handles events related to the elements and content within the document, like clicks, submissions, etc.** * **Navigation:** |
| * **Controls the browser's navigation, including changing URLs and managing browsing history.** | * **Represents the current state of the HTML content being displayed within the window.** * **Lifecycle:** |
| * **Persists throughout the lifetime of the browser window/tab.** | * **Can change as users navigate between different pages or when content dynamically updates within a single page, but it is specific to the loaded HTML document.** |