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

**The Window Object**

The **window** object represents the global context in a web browser. It is the top-level object in the browser's JavaScript environment and serves as the global scope for all JavaScript code running on a web page. Here are some key characteristics of the **window** object:

1. **Global Scope**: Variables and functions declared without the **var**, **let**, or **const** keywords are automatically added as properties of the **window** object. For example:
2. **Browser Control**: The **window** object allows you to control various aspects of the browser, such as opening and closing windows or tabs, navigating to URLs, and interacting with the browser's history.
3. **Timers and Events**: It is responsible for managing timers (e.g., **setTimeout** and **setInterval**) and handling events on the web page.

**The document Object**

The **document** object is a property of the **window** object and represents the current web page loaded in the browser. It provides access to the content and structure of the HTML document and allows you to manipulate it. Here are some key characteristics of the **document** object:

1. **DOM Manipulation**: The **document** object is primarily used for manipulating the Document Object Model (DOM) of the web page. You can access and modify HTML elements, attributes, and content using the **document** object.
2. **Element Selection**: You can select and interact with elements on the page **Events**: The **document** object is crucial for handling events, such as user interactions (clicks, input, etc.), and it facilitates event delegation, where you attach a single event listener to a common ancestor element.

**Key Differences**

Now that we've examined the roles of the **window** and **document** objects, let's summarize their key differences:

1. **Scope**: The **window** object represents the global scope of the browser's JavaScript environment, while the **document** object represents the current web page's DOM.
2. **Functionality**: The **window** object is responsible for browser-related tasks and global variables, whereas the **document** object focuses on DOM manipulation and element selection.
3. **Hierarchy**: The **document** object is a property of the **window** object, reflecting the relationship between the global environment and the specific web page.