**1.write a blog on the difference between documents and window objects**

**Ans:**

**Document Object:**

* Represents the content of a web page loaded in the browser.
* Provides access to the HTML structure and allows manipulation of DOM elements.
* Operates within the context of a single web page.

**Window Object:**

* Represents the browser window or frame containing the Document object.
* Serves as the global context for JavaScript code running within the page.
* Provides access to browser-related functionalities such as window size, navigation, and user interaction.

**Scope and Hierarchy:**

* The Document object is contained within the Window object.
* Document represents the content, while Window represents the browser environment.

**Functionality:**

* Document object manipulates HTML content and provides DOM access.
* Window object controls browser features like window size, navigation, and user interaction.

**Lifetime and Accessibility:**

* Document object exists as long as the web page is loaded.
* Window object persists throughout the browser window or tab's lifetime and serves as the global context for JavaScript code.