### DAY-2

1.write a blog on the difference between document & window objects

### **Document Object:**

The **document** object is at the heart of every web page. It represents the entire HTML content of the page and provides an interface for developers to manipulate that content. Essentially, the **document** object is a representation of the structured content that makes up the page, including all its HTML elements, text, images, and other assets.

# Here are some key characteristics of the **document** object:

- 1. **Hierarchical Structure**: The document object represents the entire DOM tree. It's structured hierarchically, with each HTML element being a node in the tree. This structure allows developers to traverse, locate, and manipulate specific elements.
- 2. **Methods for Element Access**: The document object provides methods to access elements within the DOM using various strategies, such as by their ID, class name, tag name, or CSS selector. For instance, getElementById(), getElementsByClassName(), and querySelector() are methods commonly used for element retrieval.

3. **Content Manipulation**: Through the document object, developers can change the content, attributes, and styles of elements on the page. This enables dynamic updates to reflect user interactions and real-time data changes.

### **Window Object:**

While the **document** object focuses on the content of the web page, the **window** object is concerned with the broader environment in which the page is displayed. It represents the browser window or tab that contains the web page and provides methods and properties for managing the window itself and interacting with the user.

# Here are some key characteristics of the window object:

- 1. **Global Scope**: The window object is the highest-level object in the browser's JavaScript environment. All global variables and functions are properties of the window object. This means that you can access global variables directly as properties of window.
- 2. **Browser Controls**: The window object provides methods to control the browser, such as open() for opening new browser windows or tabs and close() for closing them. It also handles navigation functions like history.back() and history.forward() to move backward and forward through the user's browsing history.
- 3. **Timers and Intervals**: The window object allows you to create timers and intervals using setTimeout() and setInterval(), enabling you to execute code at specified intervals.
- 4. **Interaction with User**: The window object handles user interactions like displaying alerts, confirmations, and prompts through methods like alert(), confirm(), and prompt().