

# Day-2 Task

## 1. Write a blog on the Difference between document & window objects?

### Window Object:

- 1. Global Scope:** The window object represents the global scope in the browser environment. It serves as the top-level object that contains various properties and methods accessible throughout the document.
- 2. Browser Window Control:** The window object provides control over the browser window itself. It allows manipulating the size, position, and appearance of the window, opening new windows or tabs, and controlling navigation history.
- 3. Global Variables and Functions:** When variables and functions are declared without any specific scope, they become properties and methods of the window object. This means that they can be accessed globally within the document.
- 4. Timers and Intervals:** The window object provides methods such as `setTimeout()` and `setInterval()` for executing code at specified time intervals. These timers are associated with the window object and can be cleared or manipulated as needed.
- 5. Cross-Window Communication:** The window object enables communication between different windows or frames. It provides methods like `postMessage()` to send messages and events across different browsing contexts, allowing for interaction and data sharing.

### Document Object:

- 1. Document Representation:** The document object represents the HTML document within a window or frame. It provides access to the elements, styles, and content of the current document, allowing manipulation and interaction with its structure.
- 2. DOM Manipulation:** The document object allows dynamic modification of the document's structure, content, and styles using methods like `createElement()`, `appendChild()`, `getElementById()`, etc.
- 3. Event Handling:** The document object supports event handling by providing methods to register event listeners, such as `addEventListener()`.
- 4. Document Structure and Navigation:** The document object provides properties and methods to navigate and traverse the structure of the document.
- 5. Document Loading and Rendering:** The document object plays a crucial role in loading and rendering web content.