# DAY 2 TASK

**write a blog on difference between window object and document**

JavaScript is a powerful scripting language that can be used to create dynamic and interactive web pages. But how does JavaScript interact with the web browser and the HTML document? To answer this question, we need to understand two important objects: window and document.

Window Object

The window object is the global object in a browser environment. It represents the browser window or tab where the JavaScript code is running. The window object has many properties and methods that control the behavior of the browser, such as:

* window.location: It returns or sets the URL of the current page.
* window.history: It provides access to the browser’s history stack.
* window.alert(): It displays an alert box with a message and an OK button.
* window.open(): It opens a new window or tab with a specified URL.
* window.innerWidth and window.innerHeight: They return the width and height of the browser’s viewport, excluding toolbars and scrollbars.

The window object also contains other objects, such as screen, navigator, and document. These objects are properties of the window object, and can be accessed either as window.objectName or just objectName.

Document Object

The document object is a property of the window object, and it represents the HTML document loaded in the browser. The document object provides access to the content and elements on the page, and allows us to manipulate them using JavaScript. Some of the properties and methods of the document object are:

* document.title: It returns or sets the title of the document.
* document.body: It returns the <body> element of the document.
* document.getElementById(): It returns an element with a specified id attribute.
* document.createElement(): It creates a new element with a specified tag name.
* document.querySelector(): It returns the first element that matches a specified CSS selector.
* document.addEventListener(): It attaches an event handler to the document or an element.

The document object also has other properties and methods that deal with forms, images, links, scripts, stylesheets, etc.

Difference between Window and Document

The main difference between window and document is that window is the global object that contains everything related to the browser, while document is an object that represents only the HTML document loaded in the browser. The document object is a property of the window object, and can be accessed as window.document or just document.

Another difference is that window has properties and methods that control the behavior of the browser, such as location, history, alert, open, etc., while document has properties and methods that manipulate the content and elements on the page, such as title, body, getElementById, createElement, querySelector, etc.

Here is a table that summarizes some of the differences between window and document:

| **Window** | **Document** |
| --- | --- |
| Global object | Property of window |
| Represents browser window or tab | Represents HTML document |
| Controls browser behavior | Manipulates page content |
| Has location, history, alert, open, etc. | Has title, body, getElementById, createElement, querySelector, etc. |

Conclusion

In this blog post, we learned about two important objects in JavaScript: window and document. We saw that window is the global object that represents the browser window or tab where the JavaScript code is running, while document is an object that represents only the HTML document loaded in the browser. We also saw some of their properties and methods, and how they differ from each other.