**DIFFERENCE BETWEEN DOCUMENT AND WINDOWS OBJECT IN JAVASCRIPT**

In JavaScript, the Document and Window objects are two of the most important objects in the Document Object Model (DOM). Both objects play a critical role in creating dynamic and interactive web pages. While they are both part of the DOM, they serve different purposes and have unique characteristics. In this blog post, we will discuss the key differences between the Document and Window objects in JavaScript.

Document Object The Document object represents the web page that is currently loaded in the browser. It is the root node of the DOM, and it contains all the HTML elements that make up the page. The Document object provides a number of methods and properties that allow you to manipulate the HTML content of the web page. For example, you can use the Document object to add, delete, or modify HTML elements and their attributes.

Some of the important properties of the Document object include:

* **document.body**: The **<body>** element of the web page.
* **document.title**: The title of the web page.
* **document.URL**: The URL of the web page.
* **document.domain**: The domain of the web page.

Window Object The Window object represents the browser window that contains the web page. It is the global object in the browser's JavaScript environment, and it provides a number of methods and properties that allow you to interact with the browser and the web page. For example, you can use the Window object to open new browser windows, navigate to other web pages, and set timers and intervals.

Some of the important properties of the Window object include:

* **window.location**: Provides information about the URL of the web page and allows you to navigate to other web pages.
* **window.document**: The Document object that represents the web page.
* **window.innerWidth**/**window.innerHeight**: The inner width/height of the browser window.
* **window.localStorage**: Provides a way to store data on the client-side.

Differences between Document and Window objects Here are some of the key differences between the Document and Window objects:

1. Scope: The Document object represents the HTML content of the web page, while the Window object represents the browser window that contains the web page. The Window object is the global object in the browser's JavaScript environment, while the Document object is a child object of the Window object.
2. Properties and methods: While both objects provide a number of properties and methods, they differ in their scope and purpose. The Document object provides methods and properties that allow you to manipulate the HTML content of the web page, while the Window object provides methods and properties that allow you to interact with the browser and the web page.
3. Accessibility: The Document object is accessible from within the web page, while the Window object is accessible from within the browser's JavaScript environment. This means that you can access the Document object from within an HTML element's event handler, but you cannot access the Window object in the same way.