# JavaScript: Window vs BOM vs DOM

## What is the window object?

The 'window' object is the global object in a browser environment. It represents the browser window or tab and provides access to global variables, functions, and BOM/DOM.

Examples:

- window.alert("Hello")

- window.location.href

- window.document.getElementById("id")

## What is BOM (Browser Object Model)?

BOM refers to objects provided by the browser that allow interaction with the browser environment (not the webpage itself).

BOM includes:

- window.location

- window.history

- window.navigator

- window.screen

- alert(), confirm(), prompt()

## What is DOM (Document Object Model)?

DOM is the structure of the HTML document loaded in the browser. JavaScript can use it to manipulate content, elements, and styles on the page.

Examples:

- document.getElementById()

- document.querySelector()

- document.body.innerHTML

## Comparison Table

# JavaScript: Window vs BOM vs DOM

| Feature | window | BOM | DOM |
|---------------|----------------------|------------------------------|----------------------------|
| Type | Global object | Part of browser interface | Webpage structure |
| Accessed by | Directly | Through window object | Through document object |
| Example | window.alert() | window.location.href | document.getElementById() |
| Purpose | Top-level container | Browser interaction | Web content interaction |

## Summary

- The window object is the global parent of both BOM and DOM.

- BOM is a set of objects that lets you control browser features like history, location, and screen.

- DOM lets you manipulate the web page's content and structure.

So, window is not exactly the same as BOM, but BOM is part of window.