***DIFFERENCE BETWEEN WINDOW, SCREEN AND DOCUMENT OBJECT***

**DOM – D**ocument **O**bject **M**odel.

* The way a document content is **accessed & modified** is called Document Object Model.
* The objects are organized in **Hierarchy.**

**BOM - B**rowser **O**bject **M**odel

* The **Browser Object Model** (BOM) allows JavaScript **to talk** to the browser.

**WINDOW, SCREEN AND DOCUMENT OBJECT:**

**Window Object:**

* It is the **top** of the hierarchy. It is the **Outermost element** of object.
* The window object represents a **window/tab** containing a DOM document.
* It represents a **browser window or frame** that displays the contents of the webpage.

**Document Object:**

* Each **HTM L document** that gets loaded into a window becomes document object. It contains **content** of page.
* It is a **property of window object** that points to the DOM document.
* The document object represent a **web page** that is loaded in the browser. With the help of document objects, we can add **dynamic content** to our web page.

**Screen Object:**

* Screen describes the **physical display’s dimensions** of full screen.
* Screen has properties like **width and height** which are the dimensions of full screen.
* The Window object also has a **screen object** with properties describing the **physical display**.

**SYNTAX:**

Window Object: **window.propertyname;**

Document Object: **document.propertyname;**

(or)

**window.document.propertyname;**

Screen Object: **window.screen.propertyname;**

(or)

**screen.propertyname;**

**DIFFERENCE B/W WINDOW,DOCUMENT & SCREEN OBJECT:**

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| --- | --- | --- | --- |
| **S.N** | **DOCUMENT OBJECT** | **WINDOW OBJECT** | **SCREEN OBJECT** |
|  | It represents **document loaded** inside the window or browser. | It represents the **browser window** in which you are seeing the content. | It just has **display dimensions.** |
|  | The properties related to it are stored in **document object.** | The properties related to it are stored in **window object.** | The properties related to it are stored in **screen object.** |
|  | It is loaded **after window** because window contains a document. | It is loaded **before document** because window contains the document. | It is loaded **after window** because window contains a screen properties. |
|  | It is the **root element** of DOM. | Window is **global element** for all objects, functions etc. | It is the **element** of **BOM**. |
|  | It is an **object of window.** | It is **object of browser.** | It is an **object of window.** |
|  | We **cannot access window object properties** inside the document. | We **can access document object properties** inside the window. | We **can access screen object properties** inside the window. |
|  | We can access document from a window using **window.document** | We can access the window from the window only using **window.window** | We can access document from a window using **window.screen** |
|  | **Ex:** document.title // return title of the document | **Ex:** window.innerHeight // will return the height of the content area of the browser. | **Ex:** screen.height // will return the height of the window. |