**Day 3: Difference between Window , Screen and Document**

**Window:**

* Window is the main property of the JavaScript Object root also known as global Object in a browser
* You can access it as window.

Syntax: window.property()

* Window has majority properties like width , height, open, close etc..
* The window is the first things that gets loaded into the browser

**Window Properties :**

* **closed :** Returns the Boolean value
* **console :** Returns the console object for the window
* **document :** Returns the document Object for the window
* **InnerHeight :** Returnthe Height of the window content area(Viewport) including Scrollbars
* **InnerWidth :** Return the Width of the window content area(Viewport) including Scrollbars
* **Name :** set the name of a Window
* **Navigator :** returns the navigator object for Window
* **Location :** return the location for the window
* **Self :** Returns current Window
* **Top :** return top most window

**Window Method :**

* **addEventlistener()**

window.addEventlistener(event, function, capture)

* **alert()**

it displays an alert box with a message an ok button**.**

Window.alert( ‘Your session Start’);

* **atob()**

It decdes the String that has been encoded by the btoa()

* **Blur()**

Removes the focus from a window

Window.blur();

* **Focus()**

Focus to a window

Window.focus();

* **Resizeto()**

Resize the window to a new width and height

Window.resizeTo(200,300);

**Screen :**

* Screen describes the physical display’s dimensions of full screen
* Screen has properties like width and height, which are the dimension’s of full screen
* The portion of screen displaying the rendered document known as Viewport in Javascript

Some of the screen properties:

Screen.height

Screen.width

**Document Object :**

* The document object is your html, aspx, php or other document whatever you choose inside the window object that will be loaded into the browser
* The document actually gets loaded inside the window object and has property available to it like title, URL, cookie, all properties related to Dom

Window.document.getElementbyID() or document.getElementbyID()

**Document Property :**

* **activeElement**:

Returns the HTML elements that have focus

* **base URI :**

It returns base URI of the document

* **body:**

Returns a documents<body> element

* **charachterSet**

Returns the character encoding for a document

* **cookie**

Its set or returns a semicolon separated list of keys and Value pairs

* **defaultView**

It returns the document ‘s window Object

* **designMode**

Its set or returns if the document is editable

* **doctype:**

It returns document’s doc type

It returns null if the element has no type

**Document Method**

* **addEventlistener()**

It attaches an event handler to an element

* **Appendchild()**

It attaches the new element and as a last child of an element

* **Blur()**

Removes the focus from an element

* **focus()**

To focus an element

* **clonenode()**

Create a copy of a node and returns the clone

* **remove()**

Remove the element from the document

* **querySelector()**

returns the first child element that matches the specified CSS Selectors

**Document Object Model :**

When a web page is loaded , the browser creates a Document Object Model(DOM) of the page. The document Object represents the whole HTML document as a tree of Objects.

Window Object

Browser

Document Object

Document object gets loaded inside the window object

Window fist gets loaded into the browser