1. Write a blog on difference between document and window objects ?

Document object :

Document object represents a web page that is loaded in the browser. By accessing the document object, we can access the element in the HTML page. We can add dynamic content to our web page. It can be accessed with a window.document or just document .

Syntax :

Document.property_name;

Important properties of document are :

- **Body** : It returns the contents of the body element
- **Cookie**: It returns the cookie of current document
- **Charset**: It returns a string, representing the document's character encoding.

- **domain**: It returns the domain name of the document server.
- **head**: It returns the head element of the document.
- **links**: It returns all <area> and <a> elements that have a href attribute.

Syntax:

```
document.method_name;
```

Methods are listed below:

- **addEventListener**(): It is used to attach an event handler to the specified element.
- **close**(): It is used to close the output stream.
- **getElementById**(): It returns the object of the given ID. If no object with that id exists then it returns null.
- **getElementsByClassName**(): It returns an object containing all the elements with the specified class names in the document as objects.
- **getElementsByName**(): It returns an object containing all the elements with the specified name in the document as objects.

Window Object:

The window object is the topmost object of the DOM hierarchy. It represents a browser window or frame that displays the contents of the webpage. Whenever a window appears on the screen to display the contents of the document, the window object is created.

Syntax:

<div style="text-align:center">window.property_name;</div>

Properties of the window:

Closed: It holds a Boolean value that represents whether the window is closed or not.

console: It returns a reference to the console object which provides access to the browser's debugging console.

Document: It returns a reference to the document object of that window.

History: It provides information on the URLs visited in the current window.

Length: It represents the number of frames in the current window.

Location: It contains the URL of the current window.

Name: It contains the name of the referenced window.

Parent: It refers to the frameset in which the current frame is contained.

Screen: It refers to the screen object

Methods of Window:

Syntax:

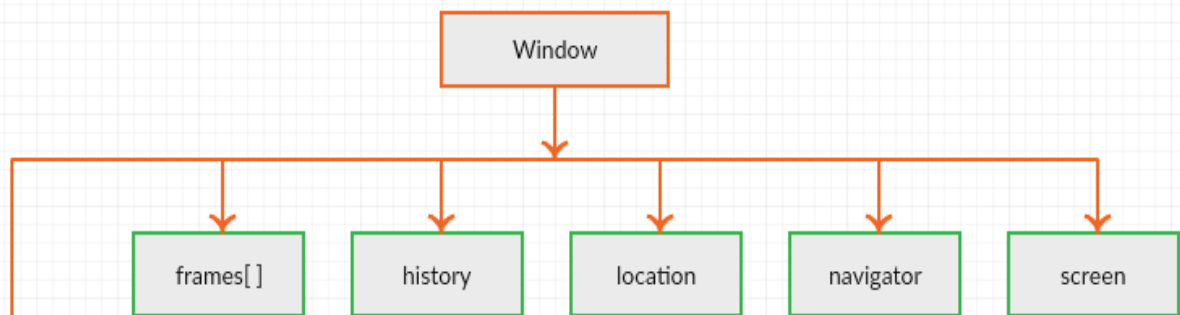<div style="text-align:center">window.method_name;</div>

The methods of Window objects that are commonly used are listed in the below table:

- **alert()**: It is used to display an alert box. It displays a specified message along with an OK button and is generally used to make sure that the information comes through the user.
- **resizeBy()**: It is used to resize a window by the specified amount.
- **scrollBy()**: It is used to scroll the document by the given number of pixels.
- **scrollTo()**: It is used to scroll to a particular set of coordinates in the document.
- **setInterval()**: It repeats a given function at every given time interval.

- **setTimeout**(): It executes a function, after waiting a specified number of milliseconds.
- **stop**(): It is used to stop the window from loading resources in the current browsing context.

Document	Window
It represents any HTML document or web page that is loaded in the browser.	It represents a browser window or frame that displays the contents of the webpage.
It is the object of window property.	It is the object of the browser.
All the tags, elements with attributes in HTML are part of the document.	Global objects, functions, and variables of JavaScript are members of the window object.
We can access the document from a window using the window. document	We can access the window from the window only. i.e. window.window
The document is part of BOM (browser object model) and dom (Document object model)	The window is part of BOM, not DOM.
Properties of document objects such as title, body, cookies, etc can also be accessed by a window like this window. document.title	Properties of the window object cannot be accessed by the document object.
syntax: document.propertyname;	**syntax:** window.propertyname;
example: document.title : will return the title of the document	**example:** window.innerHeight : will return the height of the content area of the browser

Browser Object Model (BOM)

```
Window
```

```
frames[ ]    history    location    navigator    screen
```

Document Object Model (DOM)

```
anchors[ ]    applets[ ]    areas[ ]    embeds[ ]

document  - - - - - - - - - - - - - - - - - - - - - -

forms[ ]    image[ ]    layers[ ]    links[ ]
```