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

**Document Objects –**

The document objects represent a web page that is loaded in the browser.

By accessing the document object, we can access the element in html pages. With the help of document object, we can add dynamic content to our web pages.

The document object can be accessed with a **window.document**or just**document.**

**Properties of Document**

Syntax: - document.proprty\_name;

* Here are some properties of document objects that are commonly used.

1. body: returns the content of the body element.
2. title: returns the title element of the document.
3. head: returns the head element of the document.
4. defaultView: returns the current Window Objects
5. designMode: it is used to set document as editable or read-only.
6. readyState: returns the loading status of the current objects.
7. lastModified: returns the date and time of the current document that was last modified.

**Methods of Document**

Syntax: - document.method\_name;

* Here are some most commonly used document methods.

1. addEventListner(): It is used to attach an event handler to the specified element.
2. createElement(): it is used to create HTML element.
3. getElementByid(): it returns the object of given ID. If no objects with that id exists then it returns null.
4. getElementByName(): it returns object containing all elements with specified name in the document as objects.
5. removeEventListner(): it removes the event handler from an element that has an attached event.

**Window Objects: -**

The window object is the topmost object of the DOM hierarchy.

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

**Properties of Window**

Syntax: - window.property\_name;

* Here are some properties of Window objects that are commonly used.

1. Closed: It holds a Boolean value that represents whether the window is closed or not.
2. Console: It returns a reference to the console object which provides access to the browser’s debugging console.
3. Navigator: It returns a reference to the navigator object.
4. innerHeight: It is used to get the height of the content area of the browser window.
5. innerWidth: It is used to get the width of the content area of the browser window.
6. Length: It represents the number of frames in the current window.
7. History: It provides information on the URLs visited in the current window.

**Methods of Window**

Syntax: - window.method\_name;

* Here are some most commonly used Window objects methods.

1. 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.
2. close(): It is used for closing a certain window or tab of the browser which was previously opened.
3. [**clearTimeout()**](https://www.geeksforgeeks.org/javascript-cleartimeout-clearinterval-method/)**:**It clears the timeout which has been set by the setTimeout() function before that.
4. [confirm()](https://www.geeksforgeeks.org/javascript-window-confirm-method/)**:**It is used to display a modal dialog with an optional message and two buttons i.e. OK and Cancel. It returns true if the user clicks “OK”, and false otherwise.
5. [prompt()](https://www.geeksforgeeks.org/javascript-window-prompt-method/): It is used to display a dialog with an optional message prompting the user to input some text.

| **document** | **window** |
| --- | --- |
| 1.It represents any HTML document or web page that is loaded in the browser. | 1.It represents a browser window or frame that displays the contents of the webpage. |
| 2.It is loaded inside the window. | 2.It is the very first object that is loaded in the browser. |
| 3.It is the object of window property. | 3.It is the object of the browser. |
| 4.All the tags, elements with attributes in HTML are part of the document. | 4.Global objects, functions, and variables of JavaScript are members of the window object. |
| 5.We can access the document from a window using the window. document | 5.We can access the window from the window only. i.e. window.window |
| 6.The document is part of BOM (browser object model) and dom (Document object model) | 6.The window is part of BOM, not DOM. |
| 7.Properties of document objects such as title, body, cookies, etc can also be accessed by a window like this window. document.title | 7.Properties of the window object cannot be accessed by the document object. |
| 8.syntax:        document.propertyname; | 8.syntax:  window.propertyname; |
| 9.example:       document.title :  will return the title of the document | 9.example:  window.innerHeight : will return the height of the content area of the browser |