Javascript - Day -2 : Introduction to Browser & web

1. Write a blog on Difference between document and window object.

In JavaScript, the Document and Window objects are two of the most commonly used objects. These objects provide access to various properties and methods that allow you to manipulate and control the web page displayed in a browser. Although these 2 are related they have significant differences.

**The Window Object**

The Window object is the top-level object in the browser's object hierarchy. It represents the browser window or tab and provides access to the properties and methods of the current window. The Window object is created automatically by the browser when a new window or tab is opened and is accessible through the global "window" variable.

There are different methods and properties which are associated with the window object. We can use the location property to get the URL details, hostname, port number of the current window.

We can use alert () method to create an alert on the current window. We can use open () method to open a new window etc.

**The Document Object**

The Document object is a child of the Window object. It represents the HTML document that is currently loaded in the browser window. It provides access to the HTML elements of the page and allows you to manipulate the content and structure of the document.

The Document object contains various properties and methods that allow you to access and modify the content of the HTML document. For example, you can use the "getElementById()" method to retrieve a specific HTML element from the page or use the "write()" method to write text directly to the document.

**Differences between the Window and Document Objects**

**Scope of properties and methods:**

The Window object provides access to properties and methods that are global to the entire browser window, while the Document object provides access to properties and methods that are specific to the current HTML document.

For example, the "alert()" method is a property of the Window object, which means that it can be used to display a popup dialog box in the current window or tab. On the other hand, the "getElementById()" method is a property of the Document object, which means that it can only be used to retrieve HTML elements from the current document.

**Contents:** The Window object is accessible through the global "window" variable, which means that you can access its properties and methods directly. The Document object, on the other hand, is accessed through the "document" property of the Window object.

**Events:** The window object provides methods for handling events that apply to the entire web page, such as ‘onload’ and on ‘onunload’. The document object provides methods for handling events that apply to specific elements on the web page, such as ‘onclick’, ‘onsubmit’, and ‘onchange’.

Window object is a top level object in the browser’s object hierarchy where document is the property of window object. Understanding the differences between the Window and Document objects is essential for any web developer who wants to create dynamic and interactive web pages.

Codekata Practices :

**Input Description:**  
First-line indicates two integers separated by space. Second-line indicates two integers separated by space. Third-line indicates two integers separated by space.

**Output Description:**  
Print the input in the same format.

**Sample Input :**  
2 4  
2 4  
2 4

**Sample Output :**  
2 4  
2 4  
2 4

inp.on("close", () => {

input1 = userInput[0];

input2 = userInput[1];

input3 = userInput[2];

console.log(input1);

console.log(input2);

console.log(input3);

});

2) Write a code to get the input in the given format and print the output in the given format

**Input Description:**  
Three integers are given in line by line.

**Output Description:**  
Print the integers in a single line separate by space.

**Sample Input :**  
2  
4  
5

**Sample Output :**  
2 4 5

inp.on("close", () => {

let line1 = userInput[0];

let line2 = userInput[1];

let line3 = userInput[2];

console.log(line1 + ' ' + line2+ ' ' + line3);

});

3) **Input Description:**  
First-line indicates two integers separated by space. Second-line indicates three integers separated by space. Third-line indicates three integers separated by space

**Output Description:**  
Print the input in the same format.

**Sample Input :**  
2 5  
2 5 6  
2 4 5

**Sample Output :**  
2 5  
2 5 6  
2 4 5

inp.on("close", () => {

let line1 = userInput[0];

let line2 = userInput[1];

let line3 = userInput[2];

console.log(line1);

console.log(line2);

console.log(line3);

});