**ASSIGNMENT 3**

Ques 3 - Read about the difference between window, screen and document in javascript?

**Window**

The JavaScript window object sits at the top of the JavaScript Object hierarchy and represents the browser window. The window object is supported by all browsers. All global JavaScript objects , functions, and variables automatically become members of the window object. The window is the first thing that gets loaded into the browser . This window object has the majority of the properties like length, innerWidth, innerHeight, name, if it has been closed, its parents, and more.

Window Properties:

Window object has two properties to determine the size of the browser window. They are:

window.innerHeight : gives the inner height of the browser window (in pixels)

window.innerWidth : gives the inner width of the browser window (in pixels)

Window methods:

Some window object methods are:

window.open() : open a new window

window.close() : close the current window

window.moveTo() : move the current window

window.resizeTo() : resize the current window

**Document**

The Document object represents any web page loaded in the browser and serves as an entry point into the web page’s content, which is the DOM tree. When an HTML document is loaded into a web browser , it becomes a document object. It is the root node of the HTML document. The document actually gets loaded inside the window object and has properties available to it like title, URL, cookie, etc.

Finding HTML elements:

We can find the HTML elements by using the below document object methods:

document.getElementById(id) : Find and return an element by element id

document.getElementsByTagName(name) : Find and return an element by tag name

document.getElementsByClassName(name) : Find return an element by class name

Changing HTML elements:

We can change the HTML element contents like style, text, attribute using the below properties:

element.innerHTML = new html content : Change the inner HTML of an element

element.attribute = new value : Change the attribute value of an HTML element

element.style.property = new style : Change the style of an HTML element

Adding and Deleting HTML elements:

We can create, add, delete and replace HTML elements by using the below methods:

document.createElement(element) : Create an HTML element

document.removeChild(element) : Remove an HTML element

document.appendChild(element) : Add an HTML element

document.replaceChild(new, old) : Replace an HTML element

document.write(text) : Write into the HTML output stream

**Screen**

Screen is a small information object about physical screen dimensions of the user device. It can be used to display screen width, height, colorDepth, pixelDepth etc. It is not mandatory to write window prefix with screen object like window.screen. It can be written without window prefix.