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JavaScript Document Object

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JavaScript Document object is an object that provides access to all HTML elements of a document. When an HTML document is loaded into a browser window, then it becomes a document object.

The document object stores the elements of an HTML document, such as HTML, HEAD, BODY, and other HTML tags as objects.

A document object is a child object of the Window object, which refers to the browser.

You can access a document object either using `window.document` property or using obj[Index
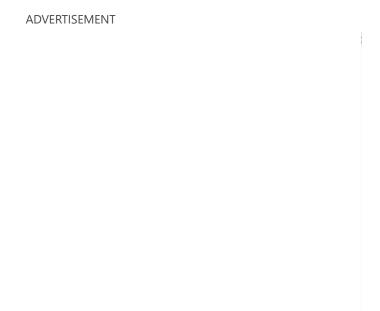
See, What we can do with Document Object:

- Suppose you have created a FORM in an HTML document using the FORM element and added some text fields and Buttons on the Form. On Submitting the Form you want to validate the input or display input on another page. In this situation, you can use a document object which is a child object of the window object. Using the document object, you can access the elements of the form and validate the Input.

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- The Document Object also provides various properties such as `URL`, `bgcolor`, etc. which will allow you to retrieve the details of a document and various methods such as `open()`, `close()`, `write()`, `getElementById()`, `getElementByName()`, etc. which allow you to perform various tasks like opening an HTML document to display output and writing a text on Web Page.

- The Document Object also allows you to [create cookies for a webpage](#) by providing a property named cookie. A cookie stores information about the user's computer, which helps in accessing visited websites.

Now let's explore document object methods and properties.

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JavaScript Document Object Properties

As we know, a property of an object is the value associated with the object. The property is accessed by using the following notation:
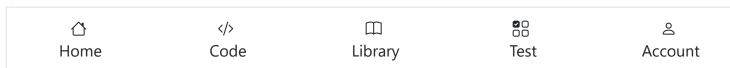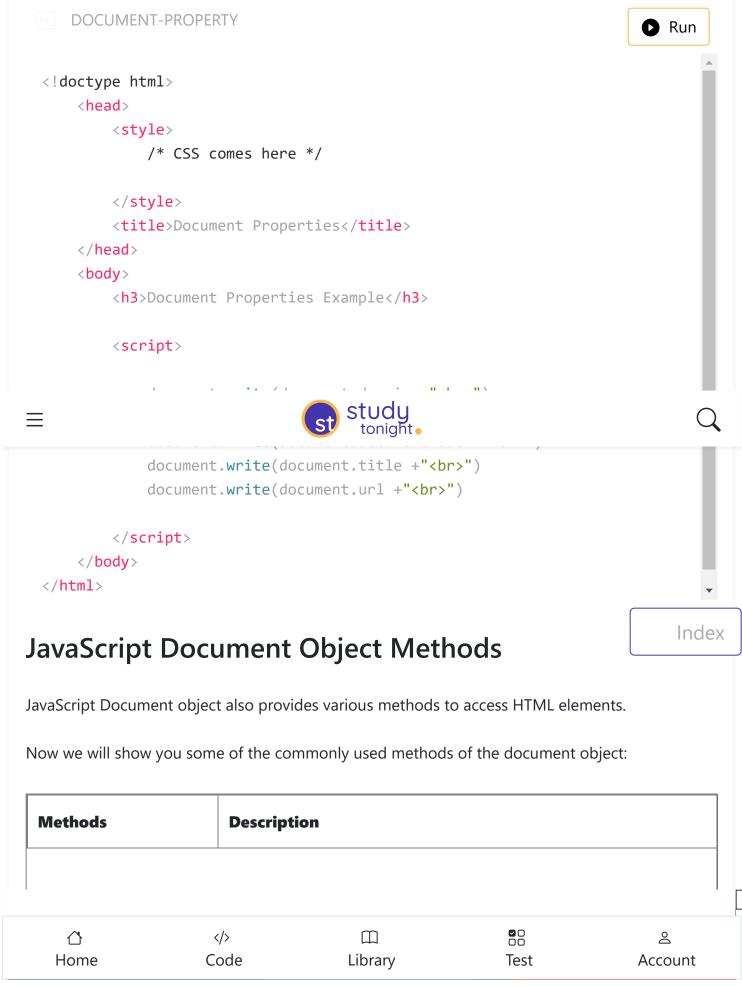
```
objectName.propertyName
```

where **objectName** is the name of the object and **propertyName** is the name of its property.

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Properties	Description
cookie	returns a report that contains all the visible and unexpired cookies associated
domain	returns the domain name of the server from which the document has originat
lastModified	returns the date on which document was last modified
documentMode	returns the mode used by the browser to process the document
readyState	returns the loading status of the document.
referrer	returns the URL of the documents referred to in an HTML document
title	returns the name of the HTML document defined between the starting and er
URL	returns the full URL of the HTML document.

Let's take an example, to see the document object properties in action:

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DOCUMENT-PROPERTY

▶ Run

```html
<!doctype html>
    <head>
        <style>
            /* CSS comes here */

        </style>
        <title>Document Properties</title>
    </head>
    <body>
        <h3>Document Properties Example</h3>

        <script>
```

☰   st study tonight.   🔍

```html
            document.write(document.title +"<br>")
            document.write(document.url +"<br>")

        </script>
    </body>
</html>
```

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JavaScript Document Object Methods

JavaScript Document object also provides various methods to access HTML elements.

Now we will show you some of the commonly used methods of the document object:

Methods	Description

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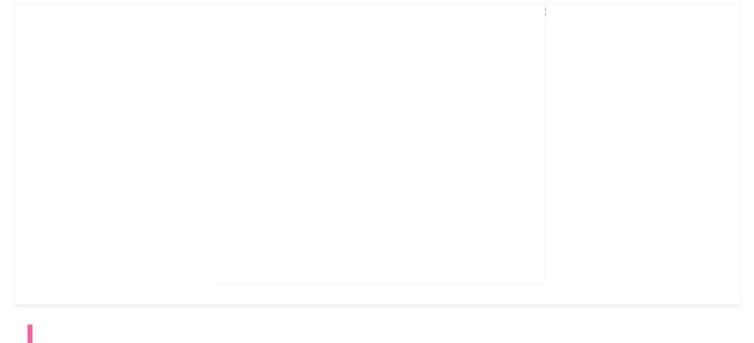| Methods	Description
open()	opens an HTML document to display the output
close()	closes an HTML document
write()	Writes HTML expressions or JavaScript code into an HTML document
writeln()	write a new line character after each HTML expressions or JavaScript c

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Methods	Description
getElementByName()	returns the reference of an element with the specified name
getElementsByTagName()	returns all elements with the specified tagname

Now let's take an example, to see the document object methods like `open()`, `write()`, and

`getElementById()` to explain their usage. See the below example:

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JS DOCUMENT METHOD EXAMPLE

▶ Run

```html
<!doctype html>
    <head>
        <title>JS Document Methods Example</title>
    </head>
    <body>
        <h3>Document Methods Example</h3>
        <p id="demo">It Will change</p>

        <script>
            // Open document
            document.open();
            // writing
            document.write("Hello" +"<br>");
            document.getElementById("demo").innerHTML = "Set by ID";
        </script>
    </body>
</html>
```

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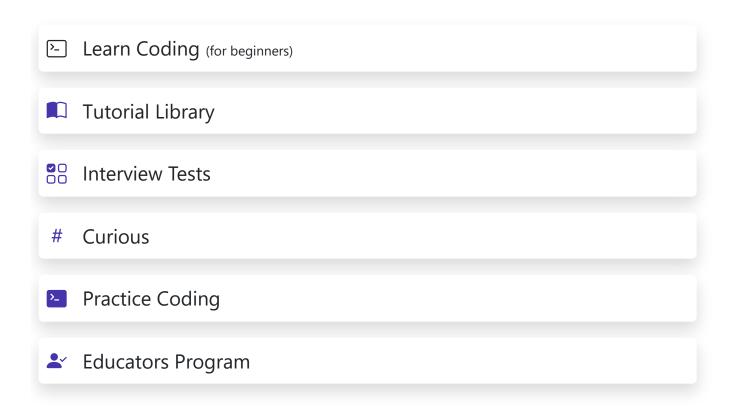
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