

Document Object Model (DOM)

In Document Object Model where every document is structured into trees and nodes. Example DOM represents an HTML document in memory and how to use APIs to create web content and applications. DOM is used to address the elements present in the html document or xml document. It is used to identify the nodes of a document using 5 methods

DOM Methods Accessing Elements

DOM Methods Accessing Elements	<code>document.getElementById(id)</code> <code>document.getElementsByClassName(className)</code> <code>document.getElementsByTagName(tagName)</code> <code>document.querySelector(cssSelector)</code> <code>document.querySelectorAll(cssSelector)</code>
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getElementById (“String Parameter”)

Program	<pre><!DOCTYPE html> <html><body><h2>The getElementById() Method</h2> <p id="demo"></p> <script> document.getElementById("demo").innerHTML = "Hello World"; </script> </body></html></pre>
Output	<p>The Document Object</p> <p>The getElementById() Method</p> <p>Hello World</p>

getElementsByClassName (“String Parameter”)

Program	<pre><!DOCTYPE html> <html> <body> <h1>The getElementsByClassName() Method</h1> <ul class="gebcn"> <li class="element">1 <li class="element">2 <p>Click on button to change its value:</p> <button onclick="myFunction()">Change</button> <script> function myFunction() { const itemscollection = document.getElementsByClassName("gebcn")[0]; itemscollection.getElementsByClassName("element")[0].innerHTML = "3"; } </script> </body> </html></pre>
Output	<p>The getElementsByClassName() Method</p> <ul style="list-style-type: none">• 1• 2 <p>Click on button to change its value:</p> <p><input type="button" value="Change"/></p> <p>The getElementsByClassName() Method</p> <ul style="list-style-type: none">• 3• 2 <p>Click on button to change its value:</p> <p><input type="button" value="Change"/></p>


querySelectorAll (“String Parameter”)

Program	<pre><!DOCTYPE html> <html><body> <h2>The querySelectorAll() Method to change the item 1 color to Green</h2> <div id="mydiv"> <h2 class="item">Item 1 </h2> <p class="item">Item 2</p> </div> <script> const element = document.getElementById("mydiv"); const itemscollection = element.querySelectorAll(".item"); itemscollection[0].style.backgroundColor = "green"; </script> </body> </html></pre>
Output	<p>The querySelectorAll() Method to change the item 1 color to Green</p> <p>Item 1</p> <p>Item 2</p>

getElementsByTagName (“String Parameter”)

Program	<pre><!DOCTYPE html> <html><body> <h2>The getElementsByTagName() Method use to select and print item2</h2> item 1 item 2 item 3 <p id="show"></p> <script> const itemcollection = document.getElementsByTagName("li"); document.getElementById("show").innerHTML = itemcollection[1].innerHTML; </script> </body></html></pre>
Output	<p>The getElementsByTagName() Method use to select and print item2</p> <ul style="list-style-type: none">• item 1• item 2• item 3 <p>item 2</p>

document.querySelector (“String Parameter”)

Program	<pre><!DOCTYPE html> <html> <body> <h2>The querySelector() Method used to change the Paragraphs color to Green and Blue</h2> <p class="p1">Paragraph 1</p> <p class="p2">Paragraph 2</p> <script> document.querySelector(".p1").style.backgroundColor = "Green"; document.querySelector(".p2").style.backgroundColor = "Blue"; </script> </body></html></pre>
Output	<p>The querySelector() Method used to change the Paragraphs color to Green and Blue</p> 

querySelectorAll (“String Parameter”)

Program	<pre><!DOCTYPE html> <html> <body> <h2>The querySelectorAll() Method</h2> <h2 class="item">Heading 1</h2> <p class="item">Paragraph 1</p> <script> const itemList = document.querySelectorAll(".item"); for (let i = 0; i < itemList.length; i++) { itemList[i].style.backgroundColor = "Green"; } </script> </body></html></pre>
Output	<p>The querySelectorAll() Method</p> 