HTML DOM

When a web page is loaded, the browser creates a Document Object Model of the page.

In other words: The HTML DOM is a standard for how to get, change, add, or delete HTML elements.

When an HTML document is loaded into a web browser, it becomes a document object.

In the HTML DOM (Document Object Model), everything is a node:

- The document itself is a document node
- All HTML elements are element nodes
- All HTML attributes are attribute nodes
- Text inside HTML elements are text nodes
- Comments are comment nodes

Tip: The document is a part of the Window object and can be accessed as window.document.

A property is a value that you can get or set (like changing the content of an HTML element).

A **method** is an action you can do (like add or deleting an HTML element).

DOM Element Object

Finding HTML Elements

the querySelectorAll() method instead.

```
By ID

document.getElementById("intro");
By Tag Name
document.getElementsById("p");
By Class Name
document.getElementsByClassName("intro");
By CSS selectors
document.querySelector(".example").style.backgroundColor = "red";
Note: The querySelector() method only returns the first element that matches the specified selectors. To return all the matches, use
```

```
var x = document.querySelectorAll(".example");
    x[0].style.backgroundColor = "red";
Note: Index position is must
Set background color for all p elements
var x = document.querySelectorAll("p");
    var i;
    for (i = 0; i < x.length; i++) {
         x[i].style.backgroundColor = "red";
Different ways to use queryselector
document.querySelectorAll("div > p");
document.querySelectorAll("h2, div, span");
Note: There are two ways to access a node at the specified index in a
node list:
document.body.childNodes.item(0);  // The first child node of <body>
document.body.childNodes[0];  // The first child node of <body>
Useful examples:
<div id="myDIV">
 First p element in div.
 Another p element in div.
 A third p element in div.
</div>
Ex1:
var div = document.getElementById("myDIV");
div.getElementsByTagName("P")[0].innerHTML = "Paragraph changed";
Ex2:
var div = document.getElementById("myDIV");
var nodelist = div.getElementsByClassName("child");
```

```
var i;
for (i = 0; i < nodelist.length; i++) {</pre>
   nodelist[i].style.backgroundColor = "red";
}
Changing HTML Elements

    element.innerHTML

  Return:
  var x = document.getElementById("myP").innerHTML;
       document.getElementById("demo").innerHTML = x;
  Set
  document.getElementById("myP").innerHTML = "Hello Dolly.";
  other ex:
  document.getElementById("myAnchor").innerHTML = "W3Schools";
  document.getElementById("myAnchor").href =
   "https://www.w3schools.com";
       document.getElementById("myAnchor").target = "_blank";
2. element.attribute = new value
     Ex1: It wil change the id
     var x = document.getElementById('DIV1').id = "div2";
     var x = document.getElementById('DIV1').src = "home.jpg"; //
     it will replace current image to home
  2. element.style.property = new style
    ex1:
     document.getElementById("myH1").style.color = "red";
   ex2: Multiple properties
  document.getElementById("myP").style.cssText = "background-
   color:pink;font-size:55px;border:2px dashed green;color:white;"
  var x = document.getElementsByTagName('H2')[0];
  x.setAttribute("style", "color:red;font-sixe:18px;");
```

Other examples:

```
For getting inline styelesheet
var x = document.getElementsByTagName("STYLE")[0];
    document.getElementById("demo").innerHTML = x.innerHTML;
```

document.getElementById("More Text").setAttribute("style", "font-size:50px;color:red;");