```
First and last child
<!DOCTYPE html>
<html>
<body>
My list
ul id="myList">IndiaCanada
The HTML content of the list's first child node is:
<script>
let text = document.getElementById("myList").firstChild.innerHTML;
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The lastChild Property</h2>
ul id="myList">CoffeeTea
The HTML content of the list's last child node is:
```

```
<script>
let text = document.getElementById("myList").lastChild.innerHTML;
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
<!DOCTYPE html>
<html>
<body>
<h1>The Document Object</h1>
<h2>The getElementsByTagName() Method</h2>
An unordered list:
Coffee
Tea
Milk
The innerHTML of the second li element is:
```

```
<script>
const collection = document.getElementsByTagName("li");
document.getElementById("demo").innerHTML = collection[0].innerHTML;
</script>
</body>
</html>
```

The parentNode Property

- Coffee
- Tea

The node name of the parent node of "myLI" is:

```
UL
Parent node
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The parentNode Property</h2>
id="myLI">Coffee
```

```
Tea
The node name of the parent node of "myLI" is:
<script>
let name = document.getElementById("myLI").parentNode.nodeName;
document.getElementById("demo").innerHTML = name;
</script>
</body>
</html>
Next and Previous sibling
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The nextSibling Property</h2>
ul>Coffee (first item)Tea (second item)
The HTML content of the next sibling of the first list item is:
```

```
<strong>Note:</strong> Whitespace between elements is considered text nodes.If you add whitespace between the two li elements, the result will be "undefined".<script>let text = document.getElementById("item1").nextSibling.innerHTML;document.getElementById("demo").innerHTML = text;</script></html>
```

The nextSibling Property

- · Coffee (first item)
- Tea (second item)

The HTML content of the next sibling of the first list item is:

Tea (second item)

Note: Whitespace between elements is considered text nodes.

If you add whitespace between the two li elements, the result will be "undefined".

```
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The previousSibling Property</h2>
id="item1">Coffee (first item)id="item2">Tea (second item)/ul>
The HTML content of the previous sibling of the second list item is:
```

```
<eh type="color: red;">
<f you add whitespace between the two li elements, the result will be "undefined".</p>
<script>
let text = document.getElementById("item2").previousSibling.innerHTML;
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

The previous Sibling Property

- Coffee (first item)
- Tea (second item)

The HTML content of the previous sibling of the second list item is:

Coffee (first item)

Note: Whitespace between elements is considered text nodes.

If you add whitespace between the two li elements, the result will be "undefined".

```
Previous element sibling

<!DOCTYPE html>

<html>

<body>

<h1>The Element Object</h1>
<h2>The previousElementSibling Property</h2>
```

The previous Element Sibling Property

- Coffee (first item)
- Tea (second item)

The previous sibling of the second list item has the text:

Coffee (first item)

```
Next element sibling

<!DOCTYPE html>

<html>

<body>

<h1>The Element Object</h1>
<h2>The nextElementSibling Property</h2>
```

The nextElementSibling Property

- Coffee (first item)
- Tea (second item)

The HTML content of the next sibling of the first list item has the text:

Tea (second item)

```
firstElementChild
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
```

```
<h2>The firstElementChild Property</h2>
Coffee
Tea
The HTML content of the list's first child is:
<script>
let text = document.getElementById("myList").firstElementChild.innerHTML;
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
 The Element Object
 The firstElementChild Property

    Coffee

    Tea

 The HTML content of the list's first child is:
 Coffee
lastElementChild
<!DOCTYPE html>
<html>
```

<body>

<h1>The Element Object</h1>

```
<h2>The lastElementChild Property</h2>
<div id="myDIV">
A P element - First child in "myDIV"
<span>A Span element - Last child in in "myDIV"</span>
</div>
The tag name of "myDIV"s last child element is:
<script>
const element = document.getElementById("myDIV");
document.getElementById("demo").innerHTML = element.lastElementChild.tagName;
</script>
</body>
</html>
The Element Object
The lastElementChild Property
A P element - First child in "myDIV"
A Span element - Last child in in "myDIV"
 The tag name of "myDIV"s last child element is:
 SPAN
parentNode
<!DOCTYPE html>
<html>
<body>
```

```
<h1>The Element Object</h1>
<h2>The parentNode Property</h2>
id="myLI">Coffee
Tea
The node name of the parent node of "myLI" is:
<script>
let name = document.getElementById("myLI").parentNode.nodeName;
document.getElementById("demo").innerHTML = name;
</script>
</body>
</html>
 The Element Object
 The parentNode Property

    Coffee

    Tea

 The node name of the parent node of "myLI" is:
UL
querySelectorAll
<!DOCTYPE html>
```

<html>

```
<body>
<h1>The Document Object</h1>
<h2>The querySelectorAll() Method</h2>
Add a background color all elements with class="example":
<h2 class="example">A heading</h2>
A paragraph.
</pr>
</pr>

<script>
const nodeList = document.querySelectorAll(".example");
for (let i = 0; i < nodeList.length; i++) {
    nodeList[i].style.backgroundColor = "red";
}
</p>

<pr
```

The Document Object

The querySelectorAll() Method

Add a background color all elements with class="example":

A heading

A paragraph.

```
getAttribute
<!DOCTYPE html>
<html>
<body>
```

```
<h1>The Element Object</h1>
<h2>The getAttribute() Method</h2>

Learn more about the <a id="myAnchor" href="dom_obj_attributes.asp" target="_blank">Attr object</a>.

The value of the target attribute of the link above is:
id="demo">
<script>
const myAnchor = document.getElementById("myAnchor")
let text = myAnchor.getAttribute("target");
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

The getAttribute() Method

```
Learn more about the Attr object.

The value of the target attribute of the link above is:
_blank

<!DOCTYPE html>
<html>
<body>
```

<h1 id="myH1" class="democlass">The Element Object</h1>

```
<h2>The getAttribute() Method</h2>
The value of the class attribute of the h1 element is:
<script>
const element = document.getElementById("myH1");
let text = element.getAttribute("class");
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
 The Element Object
 The getAttribute() Method
 The value of the class attribute of the h1 element is:
 democlass
setAttribute
<!DOCTYPE html>
<html>
<style>
.democlass {
color: red;
}
</style>
```

The setAttribute() Method

Click "Add Class" to add a class attribute to the h1 element:

Add Class

```
HasAttribute
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The hasAttributes() Method</h2>
```

```
The body element has attributes:

Adding an attribute to the body element, and the result will be true.
<script>
let answer = document.body.hasAttributes();
document.getElementById("demo").innerHTML = answer;
</script>
</body>
</body>
</body>
</body>
```

The hasAttributes() Method

The body element has attributes:

false

Adding an attribute to the body element, and the result will be true.

```
removeAttribute
<!DOCTYPE html>
<html>
<head>
<style>
.democlass {
    color: red;
```

```
</head>
</head>
<hody>

<h1 class="democlass">Hello World</h1>

<h1 class="democlass">Hello World</h1>

</pr>

<pr
```

Hello World

Click the button to remove the class attribute from the h1 element.

Try it

Click try it

removeChild

<!DOCTYPE html>

```
<html>
<body>
<h1>The Element Object</h1>
<h2>The removeChild() Method</h2>
Click "Remove" to remove the first item from the list:
<button onclick="myFunction()">Remove</button>
Coffee
Tea
Milk
<script>
function myFunction() {
const list = document.getElementById("myList");
list.removeChild(list.firstElementChild);
}
</script>
</body>
```

</html>

The removeChild() Method

Click "Remove" to remove the first item from the list:

Remove

- Coffee
- Tea
- Milk

Click remove

```
appendChild
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The appendChild() Method</h2>
Coffee
Tea
Click "Append" to append an item to the end of the list:
<button onclick="myFunction()">Append</button>
<script>
```

```
function myFunction() {

// Create an "li" node:
const node = document.createElement("li");

// Create a text node:
const textnode = document.createTextNode("Water");

// Append the text node to the "li" node:
node.appendChild(textnode);

// Append the "li" node to the list:
document.getElementById("myList").appendChild(node);
}

</script>

</body>
</html>
```

The appendChild() Method

- Coffee
- Tea

Click "Append" to append an item to the end of the list:

Append

```
createElement
<!DOCTYPE html>
<html>
<body>
<script>
// Create element:
const para = document.createElement("p");
para.innerText = "This is a paragraph.";
// Append to body:
document.body.appendChild(para);
</script>
</body>
</html>
Output:
This is a paragraph.
createTextNode
<!DOCTYPE html>
<html>
<body>
```

<script>

```
const textNode = document.createTextNode("Hello World");
document.body.appendChild(textNode);\\
</script>
</body>
</html>
Output:
Hello World
appenChild
<!DOCTYPE html>
<html>
<body>
<h1>The Element Object</h1>
<h2>The appendChild() Method</h2>
Coffee
Tea
Click "Append" to append an item to the end of the list:
<button onclick="myFunction()">Append</button>
<script>
function myFunction() {
```

```
// Create an "li" node:
const node = document.createElement("li");

// Create a text node:
const textnode = document.createTextNode("Water");

// Append the text node to the "li" node:
node.appendChild(textnode);

// Append the "li" node to the list:
document.getElementById("myList").appendChild(node);
}

</script>

</body>
</html>
```

The appendChild() Method

- Coffee
- Tea

Click "Append" to append an item to the end of the list:

Append

Click append()