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1 /***** 05_TRAVERSING_DOM *****/
2
3 const list = document.querySelector('ul.collection');
4 const listItem = document.querySelector('li.collection-item:first-child');
5
6 /**
7  * Grabbing Child Elements, Nodes;
8  */
9 // Get Child Nodes
10 const childNodes = list.childNodes;
11 /**
12  * @GOTCHA
13  * childNodes return NodeList of child nodes of the targeted element, but it
14  * also returns extra space, comments as child nodes.
15  * to avoid those child nodes, we can use 'children' property, which return
16  * the HtmlCollection containing all the child element.
17  */
18 console.log(childNodes);
19 console.log(childNodes[0].nodeName);
20 console.log(childNodes[0].nodeType);
21 /**
22  * @GOTCHA
23  * nodeType return code, which refers to the type of the node.
24  * Code For Node:
25  * --> 1 - Element
26  * --> 2 - Attribute (deprecated)
27  * --> 3 - Text Node
28  * --> 4 - Comment
29  * --> 5 - Document Itself
30  * --> 6 - DocType
31  */
32 // Get Children Element Nodes
33 console.log(list.children);
34 console.log(list.children[0]);
35 list.children[1].textContent = 'Power';
36 // Children of Children
37 console.log(list.children[3].children);
38 console.log(list.children[3].children[0]);
39
40 /**
41  * firstChild, lastChild, firstElementChild, lastElementChild
42  */
43 console.log(list.firstChild);
44 console.log(list.firstElementChild);
45 /**
46  * @GOTCHA
47  * Similar To childNodes firstChild and lastChild consider 'extra spaces and
48  * comment' as a part of the List.
49  */
50 console.log(list.lastChild);
51 console.log(list.lastElementChild);
52
53 console.log(list.childElementCount);
54
55 /**
56  * Grabbing Parent Elements, Nodes;
57  */
58 // Get Parent Node

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```
58 console.log(listItem.parentNode);
59 console.log(listItem.parentElement)
60 console.log(listItem.parentElement.parentElement);
61
62 /**
63  * Grabbing Sibling Elements, Nodes;
64  */
65 // Get Sibling
66 console.log(listItem.nextSibling);
67 console.log(listItem.nextSibling.previousSibling);
68 /**
69  * @GOTCHA
70  * Similar To childNodes nextSibling and previousSibling consider 'extra
spaces and comment' as a part of the List.
71  */
72 console.log(listItem.nextElementSibling);
73 console.log(listItem.nextElementSibling.previousElementSibling);
74
75
```