

Practical Course "Web Technologies"

Exercises 4

This assignment will give you practice in JavaScript and HTML-DOM.

Exercise 4.1.

The following HTML-document is given:

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
  <h1>First Heading</h1>
  <p>First paragraph.</p>
  <h1>Second Heading</h1>
  <p>Second paragraph.</p>
  <div>
    <input type="button" onclick="toggle()"
      value="Toggle visibility of third list item">
  </div>
  <hr>
  <div id="list">
    <ol>
      <li>First list item</li>
      <li>Second list item</li>
      <li>Third list item</li>
      <li>Fourth list item</li>
    </ol>
  </div>
</body>
</html>
```

First Heading

First paragraph.

Second Heading

Second paragraph.

Toggle visibility of third list item

-
1. First list item
 2. Second list item
 3. Third list item
 4. Fourth list item

Implement the JavaScript-function `toggle` that is associated with the onclick-event of the button.

The function shall change the style-element `display` from `block` to `none` and vice versa.

Make use of

a. The DOM-tree

The DOM-tree can be visualized on <https://software.hixie.ch/utilities/js/live-dom-viewer/>

b. DOM-methods

- the `querySelector()` method returns the first element that matches a CSS selector
- the `getElementById()` method returns an element with a specified value
- Navigating Between Nodes
You can use the following node properties to navigate between nodes with JavaScript:
 - `parentNode`
 - `childNodes[nodenum]`
 - `firstChild`
 - `lastChild`
 - `nextSibling`
 - `previousSibling`