BCVD1007 – Full Stack Development II – Lab 5

- DOM Manipulation & Traversal

Developer Note:

- Use the web documents and window web api

References:
https://developer.mozilla.org/en-US/docs/Web/API/Document

All Exercise starter code can be found in the following git repository
https://tinyurl.com/y62dtf52

Exercise 1:

Create a html document named **Ex1.html** and a function named **displayChildElements** that has the following requirements:

- Invoked **displayChildElements** within the page and takes no parameters
- Outputs to the console the following
  1. select the container element

  2. output the container element child nodes

  3. output the first child node

  4. output the first element child

  5. output the last child node

  6. output the last element child

Use the starter code found here:
https://tinyurl.com/y62dtf52

This is a header

this is a div tag

this is a paragraph

this is a second paragraphThis is a nested tag

this is a span
This is a nested div

The expected output should be as follows:

```
▶ <div id="container">…</div>
#text
    <h1 class="first">This is a header</h1>
▶ #text
 ▶ <span class="last">…</span>
```

Exercise 2:

Create a html document named **Ex2.html** and a function named **displaySiblingElements** that has the following requirements:

This is a header

this is a div tag

this is a paragraph

this is a second paragraphThis is a nested tag

this is a span
This is a nested div

Use the starter code found here https://tinyurl.com/y62dtf52

- Invoked **displaySiblingElements** within the page and takes no parameters
- Outputs to the console the following
  - select the element with the class **main-pa**r (using **querySelector method**)
  - output the **previous sibling element**
  - output the **next sibling element**

The expected output should be as follows:

```
<p class="main-para">this is a paragraph</p>
<div>this is a div tag</div>
▶ <p>…</p>
```

Exercise 3:

Create a html document named **Ex3.html**

Use the starter code found here: https://tinyurl.com/y62dtf52

- Build the HTML output in the following way
  - select the element with the container ID (using **querySelector method**)
  - create a paragraph element and append it to the container element
  - create a span element and append it to container element
  - create a h1 element and append container element

The HTML Document should render as follows:

this is a paragraph

this is span

this is header

Exercise 4:

Create a html document named **Ex4.html**

Use the starter code found here: https://tinyurl.com/y62dtf52

- Build the HTML output in the following way
  - select the element with the container ID (using **querySelector method**)
  - remove all the child elements of the container element

The HTML Document should render as follows:

This is the main header