# Lab 1 - Basics

## Preparation

### 1) HTML -> DOM-tree

Your task is to convert the HTML file `preparation/part1/document.html` to a DOM-tree similar to the one found here on W3Schools.

*Some tips:*

- Make sure you've read up on the DOM
  - Introduction to DOM
  - The HTML DOM
- Read the HTML file carefully.

### 2) DOM-tree -> HTML

As you've managed to convert the HTML to a DOM-tree, you should now be able to do the reverse. Try converting the tree found in `preparation/part2/dom_tree.pdf` into an HTML-file.
*Note:* Styling is optional.

## Calculator

In this task you are to implement the functionality for a simple calculator. You have been given template html and css in the folder `calculator_template` but as you will notice, clicking the buttons does nothing. Your task is to add javascript code so that the buttons do as expected (like a normal calculator). This will require you to learn how to traverse/select elements from the DOM-tree and handle their values. Functionality should be added for all buttons.

*Some tips:*

- You should let your code run after the `DOMContentLoaded` event is triggered. See link below. Also, try reasoning about why this is important to do.
- Pay attention to the classes and/or ids of the elements in the HTML-DOM. They can be useful for selecting elements. Feel free to customize the elements and add your own classes and/or ids.

*Some Resources:*
Document: DOMContentLoaded event - MDN Webdocs

JavaScript Selecting DOM Elements - W3Schools

JavaScript Adding Event Listeners - W3Schools