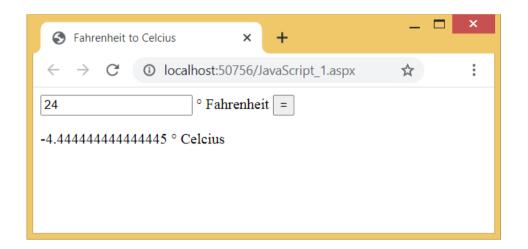
Lab - Introduction to JavaScript

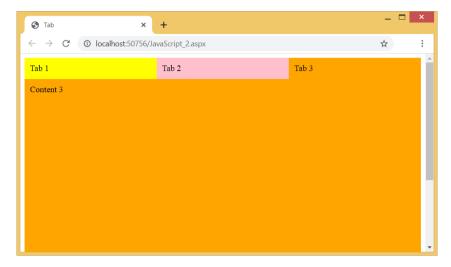
Exercise 1 – Temperature Calculator



- 1. Create a Web Page named JavaScript_1.html
- 2. Add an HTML Text Box with attribute id="fah".
- 3. Add an HTML button with attribute value="=" and onclick="toCelsius()"
- 4. Add an empty HTML paragraph with attribute id="result".
- 5. Create a JavaScript function named "toCelsius()" and calculate the Fahrenheit to Celsius conversion using this formula $(F 32) \times 5/9$
- 6. Display the calculation result in the paragraph created in step 4.
- 7. Explore the usage of "onkeyup" event in textbox created in step 2.

Exercise 2 – Web Layout and Content Control

By using JavaScript function and onClick event with a proper HTML structure and CSS, create a tab content layout as per outcome below:



- 1. Create a Web Page named JavaScript 2.html
- 2. Add the HTML Structure within the body section of the Web Page.

HTML structure for the layout above:

3. Create a CSS and add the codes below accordingly.

```
.flex-container {
                                             #tab1, #content1 {
                                                    background-color: yellow;
       display:flex;
       width:100%;
                                             }
.flex-container > div {
                                             #tab2, #content2 {
       width: 100%;
                                                    background-color: pink;
       padding: 10px;
                                             }
.tab {
                                             #tab3, #content3 {
       height:20px;
                                                    background-color: orange;
       cursor:pointer;
                                             }
.content {
                                             #content2, #content3 {
       height:500px;
                                                    display: none;
                                             }
}
```

Note:

```
display:flex;
```

enables a flex context for all its direct children.

```
cursor:pointer;
```

generate a bunch of different mouse cursors, depends on cursor type and usage. In this case, pointer cursor type is used to tell the user the box is clickable.

- 4. Create a JavaScript file and add a JavaScript function name 'tab' with parameter 't'.
- 5. Add an if statement based on 't' value send from onclick event in HTML as below. Do the same for t=2 and t=3

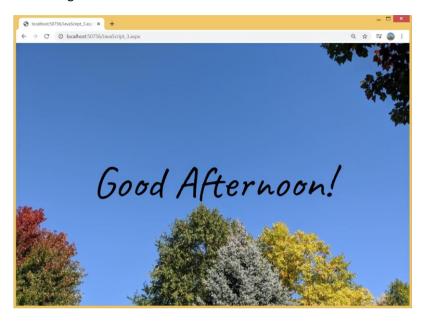
```
if (t == 1) {
    document.getElementById('content1').style.display = 'block';
    document.getElementById('content2').style.display = 'none';
    document.getElementById('content3').style.display = 'none';
}
```

6. Run the page

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Exercise 3 – Content Control

Note: No full source code given for this exercise.



Change the background image of the webpage and greet the user by using JavaScript based on the condition below:

Time	Image File	Greeting
06:00 - 11:59	morning.jpg	Good Morning!
12:00 - 16:59	afternoon.jpg	Good Afternoon!
17:00 – 21:59	evening.jpg	Good Evening!
22:00 - 05:59	night.jpg	Good Night!

You can download any suitable image from Internet, and rename it accordingly.

JavaScript to get the value of the current hour:

```
var currentDate = new Date();
var currentHour = currentDate.getHours();
```

new Date() creates a new date object with the current date and time getHours() method returns the hours of a date as a number (0-23)