Tutorial: Forms and JS

In this Tutorial the focus is on learning how to implement JavaScript data from data entered in a Form.

In the first step we create a form that gets the user name, weight and height in kg, and cm and calculates his/her Body Mass Index (BMI) and create a nice report.

BMI formula is:

BMI = weight (kg) / [height (m)]^2

First Form

In this form, we get the data from a form and create a Message Box that report the result.

Step 1: Start a html, css, and JS files and link them

Step 2: Create a form that receives the user name, and has two input boxes and a submit button.

Step 3: Add CSS to style your page and form

Step 4: write the JavaScript to perform the BMI calculation and create alert.

> Tips:
> - To convert text to number you can use: **Number(text)**, e.g., **Number ("10")**
> - To write to a new line in alert box, use "**\n**". e.g., (**"Hello" + "\nNew Line"**)
> - To have limited decimal numbers, use **.toFixed(n)**, e.g., (*10.0201.toFixed(1)*)
> - Pay attention: when you submit form, after submit the form clears. If you want to stop clearing form after submit you can use **onsubmit="return false"** in the form element. See the code:
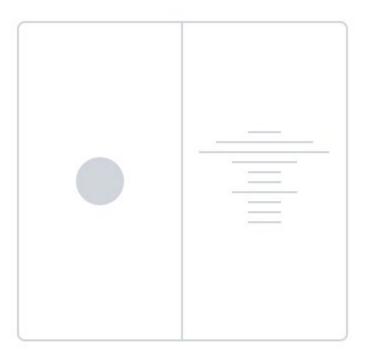>   **<form onsubmit="return false">**

A typical Form looks like:

First Name

    Your name..

Weight

    Your Weight (kg)

Height

    Your Height (cm)

    Submit

A typical alert box will look like:

First Name

John

This page says

Weight

88

Hello John
your weight is 88 kg, and your height is 1.77 cm
for this data, your BMI is 28.09

OK

Height

177

Submit

Now, a similar form will be created but this time instead of reporting in alert box, we report on the browser. As an example we do it on a split screen layout. Form on the left and report on the right.

Split screen

To start you can write your code from scratch or use some available templates.

There are many resources, you can use a template. For example, you can find some good templates in the following link:

https://csslayout.io/

Complete this section, by yourself during the class:

To help, in the following, I have provided you with the code to target your output to a specific area of your DOM.

Html

```
:
:
<input type="submit" value="Submit" onclick="reportBMI(this.form)">
</form>




<!-- Right content -->
    <div class="split-screen__half">
      <div id="rightsplit">
        <div id="report"></div>
      </div>

    </div>
```

Js

```
    document.getElementById("report").innerText= content
```