Web technologies

Exercise Set 2

1. Create an empty HTML5 file. Prepare a style1.css file with the content:

```
p { color: red; }
and a style2.css file with the content:
p { color: blue; }
div { color: red; }
```

In the HTML5 file put a reference to style1.css, in style1.css import the content from style2.css, finally, directly in the HTML5 file embed the following:

```
p { color: green; }
div { color: blue; }
h2 { color: red; }
```

Add to the HTML5 file several tags like p, div i h2 and review how colors appear in the browser. Extend one of the tags with an inline style $style='color:\ yellow'$. Experiment with different configurations, i.e. change the order of the rules, put tags into a hierarchy, figure out how inheritance influence the result, finally, check the impact of the limportant word.

[1p]

- 2. Read about the *box model*. Create a document with an appropriate content to explain the concept considering *display* and *span* tags, or, more specifically, considering *display* property and its values *inline* and *block*.

 [1p]
- 3. Find a way to center the content inside a box-a. Is there any difference in case a text is centered comparing to centering a div tag? Generally, explain centering block and inline elements inside an another box.

 [1p]
- 4. Explain how different positioning works, i.e. static, relative, absolute and fixed. In case of relative and absolute positioning check what is the reference point for calculating the final position.

 [1p]
- 5. Let's assume there is the following way of presenting products' catalogue https://www.premiumwp.com/wp-content/uploads/2010/04/e-commerce-theme-2.jpg. Propose how to leverage on absolute and/or relative positioning in creating a template for a single item from the list.

 [1p]
- 6. Review wyswietlanie1.html and wyswietlanie2.html examples.

- Put 7 elements with different float values. What happens in case elements don't fit into a single row?
- Check and present the behaviour in case of different *clear* values.

[1p]

- 7. Using 07-transitions.html as a reference create a form with the fields: firstname, lastname and address. Create an appropriate CSS to achieve the effect that when there is a focus on a certain field, there is an animation executed which emphasizes the field and make it of double length. Add a submit button (similarly as in the example) with the animation changing the text label properties (e.g. color or outer border) instead of the background ones.

 [2p]
- 8. Based on Flexible Box Layout create a layout similar to the System Zapisów one http://zapisy.ii.uni.wroc.pl/. HTML5 and CSS3 files are expected.
 [2p]

All HTML files must be verified by the validator: http://validator.w3.org/, and all CSS files must be verified by the validator: http://jigsaw.w3.org/css-validator/.

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