

# Web Design

## Laboratory exercise no. 2

### Task no. 1

Create a HTML 5 web site which will provide an explanation about HTML. The layout of the page is shown below.

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## HTML

**HTML** (HyperText Markup Language) is the most dominant [markup language](#) which is used for making web pages. This language is used to describe the structure of information in a text-oriented documents with the labeling / marking / highlighting certain parts of the text such as [headings](#), [paragraphs](#), [lists](#), etc. where the marked text is replaced with interactive forms, embedded images or other objects. HTML also describe, to some degree, the appearance and semantics of the document and may contain additional features, such as embedded programming code that can influence the behavior of a web browser or any other HTML processors. In HTML 4 there is no clear definition of the content from the rest of the page.

```
<html>
  <head>
    <title>This is the title that will show up in the browser</title>
  </head>
  <body>
    Here is written anything, but mostly things are put between <div> or <p> mark.
    Almost all markings must be completed.
    Most commonly ended adding </****>
    <strong> (the marking you want to end is written in place of the asterixs) </strong>
  </body>
</html>
```

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**There are four types of tags that allow to structure the page:**

- I. headings - [h1,h2,h3,h4,h5,h6](#)
- II. text formating - [p,q,address,block quote,cite,pre,abbr,b,br,code,del,dfn,em,hr,i,ins,s,small,strong,sub,sup](#)
- III. counting and lists - [ul,ol,li,dl,dd,dt](#)
- IV. restriction and positioning - [body,div,span](#)

In HTML there are tags that enables you to write mathematical formulas. For example:  $X_n^2 + \log(e^x)$

[Some of the deprecated tags in HTML5.](#)

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A link in HTML is defined with the tag `<a>`. The most important attribute of this tag is href which receives the path where the link should redirect the user. It is necessary to develop two more pages that will appear when clicking on the links. The first page (the first link) should have the following layout:

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## Markup language

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**Markup language** performed combining of the text with some additional information related to the text.

**Additional information**, such as the structure of the text and the way of its presentation, is expressed using markers that are inserted in the primary text. The best known language for marking into a modern use is **HTML (Hyper Text Markup Language)**. Historically marking has been used (and is still used) in publishing in the process of communication between authors, publishers and printers. Languages for marking are often divided into three classes: presentational, procedural and descriptive.

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The second page that appears upon clicking the link "Some of the deprecated tags in HTML 5" is presented below.

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### Some of the deprecated tags in HTML5:

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- a. <applet>
  - Specifies an applet
- b. <basefont>
  - Specifies a base font
- c. <center>
  - Specifies centred text
- d. <dir>
  - Specifies a directory list
- 
- 
- 
- g. <plaintext>
  - Specifies plaintext
- h. <strike>
  - Specifies strikethrough text
- i. <u>
  - Specifies underlined text
- j. <xmp>
  - Specifies pre formatted text

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Additionally, set character encoding in all pages and define keywords and description respectively.

**The solution should be archived (zip/rar). The archive should be named in the following format FirstName\_LastName\_Index and should be uploaded on the appropriate link on moodle (courses).**