**Laboratory work No. 3-a.** Creation of the elementary HTML document. Formatting of a font and paragraph

**Work purpose:**

• To learn to create the elementary hypertext document means of a text editor the Notebook.

• To learn to use tags of formatting of a font and the paragraph.

**Task for performance**

1. To create the file with the hypertext document:

• To start the Notebook editor, to enter the text:

**I welcome you on my first web page!**

• To save the file in the created folder. At preservation, in a window of dialogue to **Keep as** … in the line **File Type:** to choose option **All files** (\*. \*), and in the line File Name to set a name with the **.htm** expansion, for example **1\_name.htm** (where **name** – your name)

• To close the document, to find his pictogram in a window **my computer** or in the **Conductor** program window.

• To open the file. To analyse by means of what application the file is displayed and as the entered phrase looks.

2. To enter the tags defining structure of a HTML document:

• By means of the shortcut menu to open the file by means of the Notepad editor. To enter the tags given below, in the section of a document title (between the **<title> tags </title>)** to specify the surname.

**<HTML>**

**<HEAD> <TITLE> Фамилия </TITLE>**

**</HEAD>**

**<BODY>**

***I welcome you on my first web page!***

**</BODY>**

**</HTML>**

• **To save** the document under the same name, to update its display in a browser (to execute the Look / to Update or press the Update button at a toolbar). To analyze the happened changes in display of the document.

3. To edit the document:

• To open the menu of a browser Look/viewing of a HTML code and to add after the text **"I welcome you on my first web page!"** text of the signature:

**Student of the NNN group Surname Name**

To keep the document (but not to close) and to update his viewing in a browser.

• Using the single **<BR>** tag, to edit the document so that the signature began with a new line, and the **Surname the Name** – the next line. To see new option in a browser.

**Attention! After each change the document needs to be kept, and to begin viewing in a browser with updating of loading of the document by means of the Update button at a toolbar.**

4. To issue text fragments by means of styles of Headings:

• To issue the first line of the document the Heading of the 1st Level style by means of the pair **<h1> tag … </h1>.** To issue the second line as Heading of the 6th level, and a third as Heading of the 4th level.

• To check the document in a browser, changing control of display of fonts **(the Look/Font size / Most menu large, Average, Small and the smallest).**

• To change style of registration of the first line for Heading 2 levels, the second line - for Heading 5 of level, the last line - for Heading of the 3rd level.

5. To execute formatting of a font:

• After a line the Surname the Name to add one more line of the text

***Morning meets us by a cool***

• To issue the phrase on the sample given below.



In the word MORNING all letters have to have different colors. In the word the COOL to issue letters missile defense – red color, OH – blue.

• To issue a line with the signature (The student of the NNN group the Surname the Name) in the italics, to set font size relative change. To use **tags <font size="+2"> and <i>**

• To check the received document in a browser.</i></font>

6. To execute formatting of paragraphs:

• To create the new document **2\_name.htm**, to keep it in the same working folder.

• To enter the text (to use copying of the text from the document 1\_name.htm):

**<HTML>**

**<HEAD> <TITLE> Фамилия </TITLE>**

**</HEAD>**

**<BODY>**

**Приветствую Вас на моей второй web-страничке! <BR> Монолог Гамлета**

**</BODY>**

**</HTML>**

• To align the text to the center.

• To enter the text:

To be or not to be - here in what a question. That it is more noble: to take down blows of violent destiny - or against the sea of adversities to arm, engage. And all to finish at once...

• To issue alignment of the paragraph on width.

• To limit the paragraph to horizontal dividing lines from above and from below, using the <hr> tag.

• To copy a monologue and to break it into paragraphs. To align to the center.

To be or not to be - here in what a question.

That it is more noble: to take down blows

Violent destiny - or against the sea

Adversities to arm, engage

And all to finish at once...

• To keep the document.

• To check the document in a browser window, changing the window size.

7. To execute design of lists:

• To create the new document 3\_name.htm, to save it in the same working folder of a hard drive.

• To enter the text:

**<HTML>**

**<HEAD> <TITLE> Фамилия </TITLE>**

**</HEAD>**

**<BODY>**

**Приветствую Вас на моей третьей web-страничке!**

**</BODY>**

**</HTML>**

• To add the text of the document (between the tags … ) the following text:

**I know how to make out:**

**Fonts,**

**Titles,**

**Paragraphs**

• To issue three last lines as the list indexed. For this purpose to use the following construction of tags:

**<ol>**

**<li> Fonts, </li>**

**<li> Titles, </li>**

**<li> Paragraphs </li>**

**</ol>**

• To change execution of the list for the list marked. To use the <ul> tags, </ul>

• To create the "mixed" list:

**I know how to make out:**

**1. Fonts**

**• Size**

**• Color**

**• To a set**

**• Indexes**

**2. Headings**

**• From 1st to the 6th level**

**3. Paragraphs**

**• Alignment**

**• A rupture of lines in the paragraph**

**• With reformatting use.**

8. To show results of work to the teacher.

Table of the main tags of the HTML document. Tags of formatting of a font and paragraph

|  |  |  |
| --- | --- | --- |
| **Назначение** | **Вид тегов** | **Примечание** |
| **Общая структура документа HTML** | | |
| Тип документа | <HTML></HTML> | Начало и конец документа |
| Имя документа | <HEAD></HEAD> | Не отображается броузером |
| Заголовок | <TITLE></TITLE> | Содержимое строки заголовка окна броузера |
| Тело документа | <BODY></BODY> | Содержимое WEB-страницы |
| **Структура содержания документа** | | |
| Внутренние заголовки различного уровня | <H№> текст </H№> | Где № – номер уровня заголовка (от 1 до 6). Например, <H1>…</H1> - заголовок 1-го уровня. |
| Заголовок с выравниванием | <H№ ALIGN=”LEFT| CENTER| RIGHT”> текст </H№> | LEFT - по левому краю,  CENTER - по центру,  RIGHT - по правому краю. |
| Форматирование абзацев | | |
| Создание абзаца (параграфа) | <P> текст </P> | Абзацы отделяются двойным межстрочным интервалом |
| Перевод строки внутри абзаца | <BR> | Одиночный тег |
| Выравнивание абзаца | <P ALIGN=”LEFT”>текст </P>  <P ALIGN= ”CENTER”>текст </P>  <P ALIGN=”RIGHT”> текст</P>  <P ALIGN=”JUSTIFY”> текст </P> | LEFT - по левому краю  CENTER - по центру  RIGHT - по правому краю  JUSTIFY – по ширине |
| Разделительная горизонтальная линия между абзацами | <HR SIZE=«?»> | Одиночный тег. «?» - толщина линии в пикселях. Толщину линии можно не указывать. |
| Форматирование шрифта | | |
| Жирный | <B> текст </B> | <B>**Жирный**</B>  <I> *Курсив* </I>  <U> Подчеркнутый </U>  <S> ~~Перечеркнутый~~</S>  <SUP> Верхний индекс </SUP>  <SUB> Нижний индекс </SUB> |
| Курсив | <I> текст </I> |
| Подчеркнутый | <U> текст </U> |
| Перечеркнутый | <S> текст </S> |
| Увеличенный размер | <BIG> текст </BIG > |
| Уменьшенный размер | <SMALL> текст </SMALL> |
| Верхний индекс | <SUP> текст </SUP> |
| Нижний индекс | <SUB> текст </SUB> |
| Размер шрифта | <FONT SIZE=«?»> текст </FONT> | ?- значения от 1 до 7 или относительное изменение (например, +2) |
| Базовый размер шрифта | <BASEFONT SIZE=«?»> | Одиночный тег  ? – размер от 1 до 7; по умолчанию равен 3 и задается для всего документа в целом |
| Гарнитура шрифта | * <FONT FASE=«название1, название2, …»> текст </FONT> | Текст оформляется первым, установленным на компьютере шрифтом из списка названий |
| Цвет шрифта | * <FONT COLOR=”$$$$$$”> текст   </FONT> | Цвет задается либо ключевым словом, либо шестнадцатеричным кодом с символом #  RED –красный, #FF0000 – шестнадцатеричный код – красного цвета |
| Создание списков | | |
| Нумерованный | <OL>элементы списка</OL> | <OL>  <LI>Элемент списка 1 </LI>  <LI>Элемент списка 2</LI>  <LI>Элемент списка 3</LI>  </OL> |
| Маркированный | <UL> элементы списка </UL> |
| Элемент списка | <LI> элементы списка </LI> |

**Table of primary colors**

| **Цвет** | **Color's name** | **Шестнадцатеричный код цвета** | | |
| --- | --- | --- | --- | --- |
| **Red** | **Green** | **Blue** |
| Черный | black | 00 | 00 | 00 |
| Темно-синий | navy | 00 | 00 | 80 |
| Голубой | blue | 00 | 00 | FF |
| Зеленый | green | 00 | 80 | 00 |
| Темно-зеленый | teal | 00 | 80 | 80 |
| Салатный | lime | 00 | FF | 00 |
| Бледно-голубой | aqua | 00 | FF | FF |
| Вишневый | maroon | 80 | 00 | 00 |
| Фиолетовый | purple | 80 | 00 | 80 |
| Оливковый | olive | 80 | 80 | 00 |
| Серый | gray | 80 | 80 | 80 |
| Светло-серый | silver | C0 | C0 | C0 |
| Красный | red | FF | 00 | 00 |
| Лиловый | fushsia | FF | 00 | FF |
| Желтый | yellow | FF | FF | 00 |
| Белый | white | FF | FF | FF |

**Laboratory operation No. 3-b. An insertion in the HTML document of figures. Creation of tabs and hyperlinks**

**Operation purpose:**

• To learn to execute an insertion of figures in the HTML document

• To learn to create tabs and hyperlinks

1. To copy from the Internet or any folder in a personal folder files three graphic files (for example, **Arrows1.wmf, Arrows2.wmf, Arrows3.wmf).**

To be convinced that the documents 1\_name.htm, 2\_name.htm and 3\_name.htm created earlier also are in your folder on a hard drive.

2. An insert of drawings in the document.

• To open the document **2\_name.htm** in the Notebook.

• To insert the drawing **Arrows1.wmf** into the beginning of the document 2\_name.htm. For an insert to use the **IMG** tag with the **WIDTH and HEIGHT** parameters for installation of the sizes of the drawing of 50 pixels across and down.

• To keep the document under a name **4\_name.htm.**

• To see the received result in a browser.

• To enter into the tag of the drawing the ALIGN parameter for alignment of the drawing on the right edge. To see result in a browser.

• To insert the drawing **Arrows2.wmf** into the end of the document 4\_name.htm before, to pick up type of alignment of the drawing on the discretion. To establish the size of the drawing of 100 pixels across and down. By means of the ALT parameter to create the emerging hint "Figure 2" appearing at guidance of the cursor of a mouse on the drawing.

• To see the received result in a browser.

3. Creation of hyperlinks and bookmarks.

• In the document **3\_name.htm** to assign giperrsylka to the following elements of the list:

Behind the word Font – a hyperlink to the document 1\_name.htm.

Behind the word Headings – on the document 1\_name.htm.

Behind the word Paragraphs - on the document 2\_name.htm.

• To create a bookmark in the document 1\_name.htm before the phrase "Us morning meets by a cool". To name her "Morning".

• To change the first hyperlink (word Font) so that she pointed to the bookmark "Morning" in the document 1\_name.htm.

• To create a bookmark at the beginning of the current document 3\_name.htm. To appropriate her the name "Hello".

• To change the second hyperlink (on the word Headings), having defined for it transition to the beginning of the current document to the established bookmark "Hello".

• To create a bookmark in the document 2\_name.htm before a monologue fragment. To appropriate her the name "Mono".

• To establish a hyperlink to the bookmark "Mono" on the word of reformatting.

• To check correctness of transitions on all hyperlinks.

4. To assign hyperlinks to graphic files:

• To edit the tag of an insert of the drawing Arrows1.wmf, to enter into the tag ALT attribute for display of the text of the hint "to Return". To see in a browser as the drawing reacts to guidance of the cursor of a mouse.

• To assign to the drawing Arrows1.wmf in the document 4\_name.htm a hyperlink to the document 3\_name.htm. To execute transition between documents.

5. To show result to the teacher.

**Main tags of an insert of drawings, bookmarks and hyperlinks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Вставка изображений | | | | |
| Вставка графического файла | | <IMG SRC=”файл” WIDTH=”ширина” HEIGHT=”высота” > | | *Пример*:  <IMG SRC=”grafica.gif”  WIDTH=”550”  HEIGHT=”240”  ALIGN=” right”  ALT=”Графический файл”> |
| Выравнивание картинки относительно текста | | <IMG SRC=”файл” ALIGN=”left|right|top|bottom”> | |
| Вывод текста всплывающей подсказки при наведении курсора мыши на рисунок | | <IMG SRC=”файл” ALT=”текст”> | |
| Вставка ссылок | | | | |
| Ссылки на другую страницу | | | <A HREF=” страница”>  текст </A> | <A HREF=”str2.htm”>  Ссылка1</A> |
| Ссылка на закладку в другом документе | | | <A HREF=” страница # имя закладки”> текст</A> | <A HREF=” index.htm #met1”> На главную страницу </A>” |
| Ссылка на закладку в том же документе | | | <A HREF=”#имя закладки ”> текст </A> | <A HREF=” #metka1”>  Ссылка2</A> |
| Определить закладку | | | <A NAME=”имя закладки”>текст</A> | <A NAME=”metka1”></A> |
| Цвет фона, текста и ссылок | | | | |
| Фоновая картинка | | | <BODY BACKGROUND=”файл рисунка”> | <BODY BACKGROUND =”grafica.gif”  TEXT=”black” (черный)  LINK=”#FF0000” (красный)  VLINK=”#FFFF00” (желтый)  ALINK=”#FFFFFF” (белый)  </BODY> |
| Цвет фона | | | <BODY BGCOLOR=”#$$$$$$”> |
| Цвет текста | | | <BODY TEXT=”#$$$$$$”> |
| Цвет ссылки | | | <BODY LINK=”#$$$$$$”> |
| Цвет пройденной ссылки | | | <BODY VLINK=”#$$$$$$”> |
| Цвет активной ссылки | | | <BODY ALINK=”#$$$$$$”> |
|  | | |