

PROGRAMMING ASSIGNMENT 1

Subject : Creating personal web site by HTML

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Due Date : 26.10.2016

1 Introduction

In this assignment, you will have a chance to learn how to create a Hyper Text Markup Language (HTML) file, and also how to publish your personal web sites on the Internet. Within this assignment, you will become familiar with using your accounts on our department's servers.

1.1 Background

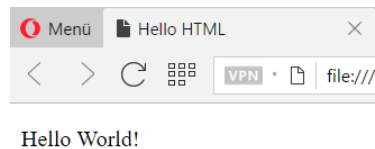
It is no exaggeration to say that we nearly always find ourselves in a range of web documents. Actually, within the advent of world wide web (WWW), we have really enjoyed being a part of the “web world”. From social network to news pages, web documents we visit vary. Well, how those documents are created? Simply, it is HTML.

HTML is a language through which you can build a web page. Basically, we use HTML in order to link web pages that contain various contents like text, images, videos, and etc. to each other. HTML elements are delineated by tags written between angle brackets. Web browsers transform HTML code into the visual structure. Below, an example of HTML code block is given:

First Experience with HTML

```
<!DOCTYPE HTML>
<HTML>
<HEAD>
<META HTTP-EQUIV="CONTENT-TYPE" CONTENT="TEXT/HTML; CHARSET=UTF-8" />
<LINK REL="STYLESHEET" TYPE="TEXT/CSS" HREF="/STYLE.CSS" />
<TITLE>HELLO HTML</TITLE>
</HEAD>
<BODY>
<P>HELLO WORLD! </P>
</BODY>
</HTML>
```

And you can see it with your browser as:



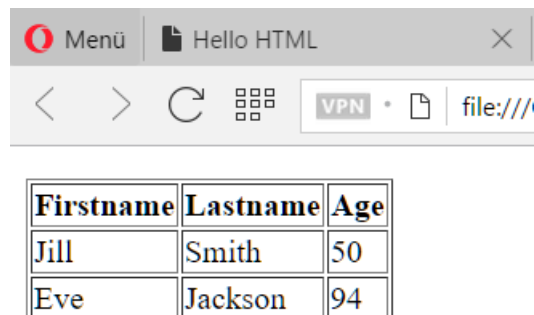
1.2 Most commonly used HTML tags

In this section, we illustrate how to use some HTML tags for different purposes.

a) Table:

It is defined by `<TABLE>` tag. Each row and column is defined by `<TR>` and `<TD>`, respectively. Table header is defined by `<TH>`.

```
<TABLE STYLE="width:100%">
<TR>
<TH>FIRSTNAME</TH>
<TH>LASTNAME</TH>
<TH>AGE</TH>
</TR>
<TR>
<TD>JILL</TD>
<TD>SMITH</TD>
<TD>50</TD>
</TR>
<TR>
<TD>EVE</TD>
<TD>JACKSON</TD>
<TD>94</TD>
</TR>
</TABLE>
```

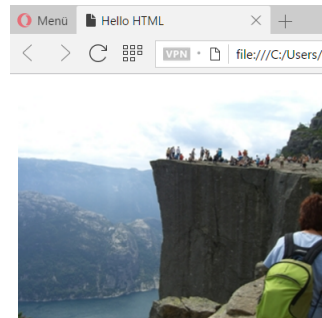
A screenshot of a web browser window showing a table. The table has three columns: Firstname, Lastname, and Age. The first row contains Jill, Smith, and 50. The second row contains Eve, Jackson, and 94.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94

b) Image:

HTML images are defined by ``, it does not have a closing tag. You should set image path to `src` attribute. In the case, web browser failed to find or to open image due to slow connection and etc., it displays the text that is set to `alt` attribute.

```
<IMG SRC="PIC_MOUNTAIN.JPG" ALT="MOUNTAIN VIEW" STYLE="width:304px; height:228px;">
```

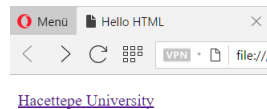


c) **Link:**

It is actually hyperlink which is used to jump from a web document to another. In HTML, links are defined by `<A>` tag. Destination address must be specified in *href* attribute. You can optionally use target attribute to specify where to open linked document. It takes a number of pre-defined values:

- `_blank`: Opens the linked document in a new window or tab.
- `_self`: Opens the linked document in the same window/tab (default)
- `_parent`: Opens the linked document in the parent frame
- `_top`: Opens the linked document in the full body of the window

```
<A HREF="HTTP://HACETTEPE.EDU.TR" TARGET="_BLANK">HACETTEPE UNIVERSITY</A>
```



d) **Paragraphs:**

To define a paragraph you need `<P>` tag.

```
<P>THIS IS 1ST PARAGRAPH.</P>
```

```
<P>THIS IS 2ND PARAGRAPH.</P>
```

One must not be forgotten that you can not change the output by adding extra lines in HTML code. Instead `
` tag can be used to define a line break.

```
<P>THIS IS<BR>A PARAGRAPH<BR>WITH LINE BREAKS.</P>
```

There exist more HTML tags for different purposes such as list, heading, layout, and etc. you can also use them while building your web document.

2 Assignment

In this assignment, you are expected to create your personal website with HTML (Hyper Text Markup Language) and deploy it to your web space on web.cs.hacettepe.edu.tr/~b2*****. You have to define at least 3 pages with the minimum requirements below:

1. **index.html:** Simply introduce yourself on this page which will be also your home page. You must locate your CV somewhere on this page in HTML and it must contain your photo. This CV must be downloadable as a PDF document. Your home page must also include your contact addresses including e-mail address as a “mailto” link.
2. **myDep.html:** In this page, it is expected to supply information about your department and put your weekly schedule in a table on this page.
3. **links.html:** Here it is expected to list some useful links (Hint: use *anchor* tags). Your links must be opened in new tabs or windows.

All pages must contain a simple horizontal menu bar. A menu is a page selection part on the web page for jumping to other pages. Furthermore, menu parts have items (e.g. *Home*, *Contact*). Traditionally, almost all web pages have a default *Home* button for redirecting the user to *index.html* page. Therefore, your menu items can be named as “Home”, “My Department”, “Links”.

There are some **obligations**:

- Character encoding must be UTF-8.
- You must use title, author and description meta-tags.

A few hints for you:

- You can use CSS files to make your web page more attractive (**optional**).
- You can use editors like FrontPage, Dreamweaver etc. to make your work easy.
- You can use notepad++ or AptEditLite for HTML editing.
- You can use psftp to access your accounts.
- You can test your web page at browser window upon editing your html / css files or jsfiddle.net.

Notes

- Do not miss the deadline.
- Save all your work until the assignment is graded.
- The assignment must be original, individual work. Duplicate or very similar assignments are both going to be considered as cheating.

- You can ask your questions via Piazza (<https://piazza.com/hacettepe.edu.tr/fall2016/bbm101>) and you are supposed to be aware of everything discussed in Piazza.
- You will submit your work from <https://submit.cs.hacettepe.edu.tr/index.php> with the file hierarchy as below:

```
→ <student id>
    → index.html
    → myDep.html
    → links.html
    → *.html (optional)
    → *.css (optional)
    → *.pdf
    → *.jpg, *.jpeg
```

This file hierarchy must be zipped before submitted (Not .rar , only .zip files are supported by the system).

3 Resources

1. <http://en.wikipedia.org/wiki/HTML>
2. <http://www.w3schools.com/html/>
3. <http://www.submitcorner.com/Guide/Meta/author.shtml>
4. <http://www.submitcorner.com/Guide/Meta/description.shtml>
5. <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>
6. <http://the.earth.li/~sgtatham/putty/0.52/htmldoc/Chapter6.html>
7. [Jsfiddle.net](http://jsfiddle.net)