Miguel de la Cruz Cabello
Professor Lund
COMS 210
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Ch. 2 Homework

1. Compare and contrast the HTML and XHTML markup languages. State two similarities and two differences between the two markup languages. How should HTML be used in a web page.

   HTML describes the content and structure of information on a web page; same function as XHTML, which is a newer version. The browser will accept some malformed HTML in the XHTML version. The main difference between HTML and XHTML is the use of different syntax and tags in XHTML that are not used in HTML. Another difference is that XHTML uses a markup format called XML. This format is not included in HTML.

2. What's wrong with the tags the author has chosen for the following HTML content? <insert code here>
   These tags are incomplete. We only have the open tag abut not the closing tag. An example of better tags would be: <insert code here>content</insert code here>

3. What are the differences between block and inline HTML elements? Give two examples of each type of element.

   Block elements contain a large region of content while inline elements just affect a small amount of content. Also, inline elements must be nested inside a block element. Ex of block elements: a paragraph, and a list. Ex of inline elements: bold text, and images.

4. What is the difference between an element and an attribute? Give two examples of elements that require attributes.

   The element holds the content while the attribute describes a characteristic of an HTML element. Ex: <h href="www.google.com"> Google and <hr />.

5. What do the <ul> and <ol> tags present in HTML. Write a short HTML code segment that lists your top 3 - 4 outdoor hobbies/activities.

   → represents a bulleted list of itmes.
   → represents a numbered list of numbers.
   Ex:
   <!DOCTYPE>
   <html>
     <body>

          Play soccer
          Watch TV
          Travel

     </body>

</html>

6. What HTML tags can be directly nested in a table tag? What tags can be directly nested in a <tr> tag?

The html tags nested in a table are <th>,<td>,<tr>,<caption>, <col>,<tbody>, and <thead>. The html tags nested in a <tr> tag are <td> and <th>.

7. What HTML code would you use to make a page show the following:

```
Today's HTML lesson:
To place a < in your page, write &lt; in the HTML code.
To show an ©, put &copy; instead.
```

<html>
<body>
 <p>Today's HTML lesson:</p>
 <p>To place a &lt in your page, write < in the HTML code</p>
 <p>To show a &copy, put © instead</p>
</body>
</html>

8. What element(s) can you use to respect the whitespace in a piece of text like Python programming code? Provide an example for the following:

```
myFloat = 7.0
print(myFloat.whitespace)
myFloat = float(7)
print(myFloat.whitespace)
```

9. What are web standards? Browse this 2019 URL webpage on Web Standards Guide and your textbook, list 2 – 3 reasons we need web standards.

Web standards are rules and guidelines developed to promote consistency in the design code which makes up a web page. We need web standards to keep the web free and accessible to all, and to make source code simpler.

10. Does the front page of Bethany Lutheran College use compliant HTML? How many errors and how many warnings are reported?

Based on what I searched, the BLC page (https://blc.edu) does not use compliant HTML since it has many errors and warnings. In addition, there are 42 warnings, and 14 errors.

11. Pick three websites of your own choice and use an XHTML validator to see if they comply to W3C standards.

https://www.nike.com → contains 190 errors and warning so it does not meet comply to W3C standards.
https://www.apple.com → contains 54 errors and warnings so it does not comply to W3C standards.

https://ww.bmwusa.com/ → contains 730 errors and warnings so it does not comply to W3C standards.

12. What are three uses of meta tags? Which meta tag is used for a search engine "snippet"?

There are several uses of the meta tag. However, some of the most important are: to specify the character set, page description, and author of the document. The meta description tag is used for a search engine "snippet".

13. Many HTML editing programs such as DreamWeaver (Adobe), WordPress, or CKEditor insert meta generator tags in documents you create with them, like this:

```
<meta name="generator" content="WordPress 3.5" />
```

Why do you think the software does this, even though the **meta** tag cannot be seen on the page?
Even though meta tags don't appear on the page itself, they are used because they help tell search engines what a web page is about.