Self-Check Practice 4/03/2020   Python and Web
Part I

1. Text put between the _____ tags appears in the browser's title bar (i.e., the dark bar at the top of the browser window).
   a) <h6></h6>
   b) <title></title>
   c) <h1></h1>
   d) <head></head>

2. Which heading is the smallest?
   a) h6
   b) h1
   c) h5
   d) h0

3. In the statement , href is a(n) _____ of the a element.
   a) anchor
   b) element
   c) label
   d) attribute

4. The alt attribute is used in a(n) _____ element to provide an alternate _____ description for the image.
   a) img, text.
   b) a href, address.
   c) title, text.
   d) src, image size.

5. An unordered list is created using which notation?
   a) <list type = " unordered">
   b)
   c) <unordered>
   d) <un>

6. An HTML5 table contains rows delimited by _____ elements, which contain cells delimited by _____ elements.
   a) tr, td
   b) tr, tr
   c) table, td
   d) td, tr

7. The usage of an input element is defined by the value of its _____ attribute.
   a) name
   b) type
   c) size
   d) all of the above

8. The <meta > tag is coded in the _____ section of a web page document.
   a)   body
   b)   head
   c)   footer
   d)   DOCTYPE

9. How would you link to the named fragment #school on the page resume.html from the home page of the site?
   a)   Educational Background
   b)   Educational Background
   c)   Educational Background
   d)   Educational Background

10 Choose the item that creates an image link to the school.html page when the school.gif graphic is clicked.
   a)
   b)   <img src="school.gif" alt="school">
   c)   <img src="school.gif" href="school.html" alt="school">
   d)   <img src="school.gif" href="school.html" alt="school">

Part II

1. Write an html which will display on the browser as the following. Replace *Yourname* as your real name

Yourname **Graduate Open House**

Please fill out the feedback form.

First Name: [Your first name] (John)
Last Name: [Your last name] (Doe)
Address1: [   ]
Address2: [   ]
Zip Code: [   ]
Email: [firstInitLastname@montclair.edu] (name@montclair.edu)

Check off all of the characteristics that you enjoyed about our department:

Faculty ☐ Students ☐ Location ☐ Facilities ☐ Atmosphere ☐ Research ☐ Curriculum ☐

How did you become interested in our graduate program?

Friends ⦿ Magzine ○ Internet ○ Other ○

May we contact you?

Yes ⦿ No ○

Please leave comments here

Comments: [   ]

[Submit] [Clear]

ANS:

```html
<!DOCTYPE html>

<!-- Q1 Part II Spring 2020 -->
<html>
    <head>
        <title>Q1 Answered by JJ</title>
    </head>
    <body bgcolor=lightblue>
        <h1><em style='color:red'>Yourname</em> Graduate Open House</h1>
        <p>
            Please fill out the feedback form.
        </p>
        <form method = "post" action = "">
          <table>
          <tr>
           <td>First Name:
           </td>
           <td>  <input type = "text" id = "firstName"
                   placeholder = "Your first name"
                    size = "40" required autofocus/> (John)
             </td>
          </tr>
          <tr>
           <td>Last Name:
           </td>
           <td> <input type = "text" id = "lastName"
                   placeholder = "Your last name"
                   size = "40" required  /> (Doe)
           </td>
          </tr>
          <tr>
           <td>Address1:
           </td>
           <td>
              <input name = "address1" type = "text"
                  size = "40" />
           </td>
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                      size = "40" />
                   </td>
                   </tr>
                   <tr>
                   <td>Address2:
                   </td>
                   <td>
                      <input name = "address2" type = "text"
                         size = "40" />
                   </td>
                   </tr>
                   <tr>
                   <td>Zip Code:
                   </td>
                   <td>
                      <input name = "zip" type = "text" size = "40" />
                   </td>
                   </tr>
                   <tr>
                   <td>Email:
                   </td>
                   <td>     <input type = "email" placeholder = "firstInitLastname@montclair.edu"
                         size = "40"
                         required /> (name@montclair.edu)
                   </td>
                   </tr>
                   </table>
                   <p><strong><em>Check off all of the characteristics that
                      you enjoyed about our department:</em></strong><br /></p>
                   <p>
                      <label>Faculty
                      <input name = "likes" type = "checkbox"
                         value = "faculty" />
                         </label>
                       <label>Students
                      <input name = "likes" type = "checkbox"
                         value = "students" />
```

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         </label>
      <label>Students
      <input name = "likes" type = "checkbox"
         value = "students" />
         </label>
      <label>Location
      <input name = "likes" type = "checkbox"
         value = "location" />
         </label>
      <label>Facilities
      <input name = "likes" type = "checkbox"
         value = "location" />
         </label>
      <label>Atmosphere
      <input name = "likes" type = "checkbox"
         value = "atmosphere" />
         </label>
      <label>Research
      <input name = "likes" type = "checkbox"
         value = "research" />
         </label>
      <label>Curriculum
      <input name = "likes" type = "checkbox"
         value = "curriculum" />
         </label>
</p>
<p><strong><em>How did you become interested in
   our graduate program?</em></strong><br /></p>
<p>
   <label>Friends
   <input name = "interest" type = "radio"
      value = "friends" checked = "checked" />
      </label>

   <label>Magzine
   <input name = "interest" type = "radio"
      value = "magzine" />
```

```
          </label>
        <label>Students
        <input name = "likes" type = "checkbox"
          value = "students" />
          </label>
        <label>Location
        <input name = "likes" type = "checkbox"
          value = "location" />
          </label>
        <label>Facilities
        <input name = "likes" type = "checkbox"
          value = "location" />
          </label>
        <label>Atmosphere
        <input name = "likes" type = "checkbox"
          value = "atmosphere" />
          </label>
        <label>Research
        <input name = "likes" type = "checkbox"
          value = "research" />
          </label>
        <label>Curriculum
        <input name = "likes" type = "checkbox"
          value = "curriculum" />
          </label>
    </p>
    <p><strong><em>How did you become interested in
      our graduate program?</em></strong><br /></p>
    <p>
        <label>Friends
        <input name = "interest" type = "radio"
          value = "friends" checked = "checked" />
          </label>

        <label>Magzine
        <input name = "interest" type = "radio"
          value = "magzine" />
```

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                    </label>

            <label>Other
            <input name = "interest" type = "radio"
               value = "other" />
               </label>
        </p>
        <p><strong><em>May we contact you?</em></strong><br /></p>
         <p>
            <label>Yes
            <input name = "contact" type = "radio"
               value = "yes" checked = "checked" />
               </label>

            <label>No
            <input name = "contact" type = "radio"
               value = "no" />
               </label>

        </p>
        <p><strong><em>Please leave comments here
            </em></strong><br /></p>
        <p>
            <label>Comments:
               <textarea name = "comments" rows = "4"
                  cols = "40"></textarea>
               </label>
        </p>
        <p>
            <input type = "submit" value = "Submit" />
            <input type = "reset" value = "Clear" />
        </p>
      </form>
   </body>
</html>
```

2. Write a Python web application which will convert temperature from Fahrenheit to Celsius.

Temperature Convertor

Please enter temperature in Fahrenheit.

Fahrenheit: 212

Convert

The response from the server side is

212.0 degree F is 100.0 degree in C

```html
<!DOCTYPE html>

<!-- Q2 Part II Spring 2020 -->
<html>
    <head>
        <title>Q1 Answered by JJ</title>
    </head>
    <body>
        <h1>Temperature Convertor</h1>
        <p>
            Please enter temperature in Fahrenheit.
        </p>
        <form method = "post" action = "convert.cgi">
            Fahrenheit:
            <input type = "text" name = "degreeF"
                    size = "40" required autofocus/>
            <br />
            <input type = "submit" value = "Convert" />
        </form>
    </body>
</html>
```

```
*convert.cgi - Notepad
File  Edit  Format  View  Help
#!C:\Python34\python.exe
import cgi

def htmlTop():
    print("""Content-type:text/html\n\n
<!DOCTYPE html>
<html>
    <head lang="en">
    <meta charset="utf-8"/>
    <title> Convertor </title>
    </head>
    <body>""")

def htmlTail():
    print("""</body>
        </html>""")

#main program
if __name__ == "__main__":
    try:
        htmlTop()
        formData = cgi.FieldStorage()
        degree_f = formData.getvalue('degreeF')
        degree_f = float (degree_f)
        degree_c = (degree_f -32.0) * 5.0 / 9.0
        print("{} degree F is {} degree in C".format(degree_f, degree_c))
        htmlTail()
    except:
        cgi.print_exception()
```

Ln 30, Col 1   100%   Windows (CRLF)   UTF-8