Question 1 – Q1Mid.htm (50 points)

Use the file "Q1Mid.htm" to create the following (see figure below – the border shown is for reference only to show how the entire page looks like. It does not exist on the web page.)

Format the content provided together with the images provided (separately) to look like the image shown above. The image shows ALL of the web page. The <p> tags are all added for your convenience. Do not add any more <p> tags unless needed. Points indicated in parenthesis.

1. **(15) Construction**
   - (1) The main title "HTML5 and CSS" uses <h1>
   - (2) The secondary titles (the HTML5 and CSS) use <h2>

- (2) The HTML5 image should be added in the spot indicated by the place holder <add HTML5 here>.
- (1) The CSS3 image must be added in the spot indicated by the place holder <add CSS3 here>.
- (2)Create a ordered list using the 4 phrases that immediately follow the paragraph containing the sentence "HTML5 is intended to subsume:"
- (2) Create an unordered list using the three (slightly longer phrases) right below the 4 phrases mentioned above.
- (5) At the bottom of the page, inside a <div> with the id "menu", you will find four words: Q1-HTML5, Q1-CSS3, Q2Mid.htm, and Q3Mid.htm. Please hyperlink:
  - Q1-HTML5 to the subheading HTML5 in Q1Mid.htm.
  - Q1-CSS3 to the subheading CSS3 in Q1Mid.htm
  - Q2Mid.htm to the file Q2Mid.htm
  - Q3Mid.htm to the file Q3Mid.htm

2. **(35) Styles – (use internal styles only)**
   - (2) The entire page uses Cursive font.
   - (2) The white strip on the left and right is 150px. It is 10px at the top and bottom. Both are shown in the figure above.
   - (1) The paragraphs are all justified (the alignment of text).
   - (1) The first line of each paragraph must be indented by 20px.
   - (3) The main heading has
     - Arial Rounded MT font.
     - The font color is yellow.
     - The heading is centered on the page.
     - The background for the main heading is set using "beaver.jpg".
     - At the top and bottom, there is a 5px space between the background-edge and the text
   - (2) The HTML5 image
     - Positioned right and the text must flow around it.
     - Its width is 25%.
     - There must be a 5px space between the text and the top of the image.
   - (2) The CSS3 image is
     - Positioned to the left and the text must flow around it.
     - Its width is 15%
     - It must have a 5px gap to its right and to its top.
   - (2) The entire section on HTML5 must have a yellow background.
   - (2) The entire section on CSS3 must have a silver background.
   - (3) There must be no space between the yellow and silver sections.
   - (2) To the right and left of both the yellow and silver sections, there must be a 50px space between the edge of the section and the text.
   - (1) To the top and bottom, this space must be 10px.
   - (2) The two subheadings (HTML5 and CSS3)
     - Must have a white background.

- The space between the left-edge and the text must be 20px.
- The space to the right of the right-edge must be 1200px (or as much as you can possibly set it so that it looks as close to the figure shown above).

- (2) The ordered list must use lower case Greek numbering system.
- (2) The unordered list must use the image "ss.jpg" as the bullet.
- (4) The <div> with the id of "menu" at the bottom:
  - Must have a background color of light-gray.
  - The white space to its right and left must be 450px.
  - The white space to the top and bottom must be 25px.
  - The silver space between the text and the right-edge is 50px.
  - The silver space between the text and the left-edge is 100px.
- (2) The hyperlinks must not be underlined. When moused-over, its background must turn yellow. The background must return to "light-gray" when the mouse is removed.

Please refer to the instructions in the Q2Mid.htm and Q3Mid.htm for answering the next two questions.

Reflect the Image (20 points)

There are two images shown below along with two text strings. Create the functionality whereby if you click on the Smiley.jpg image, the text string "Web Tech Rocks" is shown in red font, size 2em, using Lucida Handwriting with a yellow background. If you click on frown.jpg image, the string "Web Tech Sucks" is shown in green font, bold, size 2em, and using Arial. When one text string is shown, the other should not be displayed. Use as many functions as you see necessary to complete this functionality.

Web Tech Rocks!

Web Tech Sucks!

Question 3 – Q3Mid.htm (30 points)

Midterm Exam - Question 3

Please create the following functionality using the form given below. When the user clicks the Compute button, a sales tax is calculated based on the selected state and placed in the form where indicated. Also the total (price * quantity + tax) is computed and placed in the form where indicated. If the price or the quantity is blank, an alert will pop up telling the user to enter the information. If the price and the quantity is not a number, another alert will pop up. The fractional part of tax and total should be fixed to two digits.

Tax Computation Form

Price: [   ]

Quantity: [   ]

State: [Massachusetts ∨]

Tax: [   ]

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Total: [   ]

[Compute] [Clear]

Make sure the Midterm folder has the following files:

1. Q1Mid.htm
2. Q2Mid.htm
3. Q3Mid.htm
4. **6 image files**: HTML5.png, CSS3.png, ss.jpg, beaver.jpg, smiley.jpg and frown.jpg.