

CIS 241 - WEB DEVELOPMENT I
Week 3
2023-Fall

Lesson Plan

Welcome to CIS 241 - WEB DEVELOPMENT I! This is an online class. You need to login into EDCC Canvas. Follow the steps to finish the assignment.

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Web Application Developer / Database
Email: anna.truss@edmonds.edu

Edmonds College

Step 1. Lab 2-1: Creating a simple HTML5 page

Connect to **CIW Site Development Associate** (<http://ciw.uCertify.com>). Login to your account.

The screenshot shows the homepage of the CIW Site Development Associate website. At the top, there's a navigation bar with links for 'BROWSE TITLES', 'COURSE CATEGORIES', 'TECHNOLOGY', 'REQUEST DEMO', 'I AM A...', and 'LOG IN or SIGN UP'. Below the navigation, a banner highlights 'SIIA CODIE AWARDS WINNER' with '25 CODIES IN 6 YEARS' from 2014 to 2019. To the right of the banner is a large image of several shiny silver Codie awards. Below the banner, there's a section titled 'ABOUT SIIA CODIE AWARDS' with a brief description and a link to 'View Awards'. At the bottom of the main content area, there's a large callout for '400+ Titles in IT Project Management, Business'.

Click to open your library.

The screenshot shows the user's library page. The top navigation bar includes 'REQUEST DEMO', 'Hello Louis My Library', and 'Feedback & Support'. Below the navigation, a circular profile picture shows the initials 'LH'. The greeting 'Welcome Louis Ho' is displayed. At the bottom of the page are three large, rounded icons with text below them: 'Home Page' (blue house icon), 'My Library' (blue book icon), and 'Previous Page' (green left arrow icon).

Click to open CIW: Site Development Associate in your library.

The screenshot shows the uCertify platform interface. At the top, there's a navigation bar with links for 'My Library', 'BROWSE TITLES', 'COURSE CATEGORIES', 'TECHNOLOGY', 'REQUEST DEMO', and user status indicators ('I AM A...', 'LH', '?'). Below the navigation is a toolbar with buttons for 'My Library', 'Add License', 'My Profile', 'Search', and filters for 'All Courses', 'Active', 'Archived', 'Expired', and 'Groups'. The main content area displays two course cards for 'CIW Authorized Curriculum'. The first card is for 'CIW: Site Development Associate (1DD-61B)' and the second for 'CIW: Javascript Specialist (1DD-735)'. Each card includes a 'Manage' button.

Open Chapters & Lessons.

The screenshot shows the uCertify course dashboard for 'CIW: Site Development Associate (1DD-61B)'. The dashboard features a sidebar with four main sections: 'Pre Assessment' (with a green icon), 'Chapters & Lessons' (with a blue icon), 'Practice Tests' (with a red icon), and 'Post Assessment' (with a purple icon). To the right of the sidebar is a summary box titled 'Day 385' showing progress from 'Start: 16-SEP-19' to 'Target: 04-OCT-20'. It also displays a message about readiness score and completion date. Further down the dashboard are sections for 'Open Study Planner', 'Certificate of Completion' (with a note about receiving a certificate if a 90% score is achieved), and 'Test History & Performance Analytics' (with a note about gauge performance).

Open Lesson 2 HTML5 Coding > Preparing Your Development Environment.

The screenshot shows the CISHT 2019 Fall Courseware interface. The top navigation bar includes tabs for 'Table of Contents', 'Exam Objectives', 'Annotation', 'All Videos', and 'Glossary'. Below the navigation is a search bar with placeholder text 'Start typing to search TOC' and buttons for 'Start where you left off', 'Go to the last point read', and 'Create interactive learning'. The main content area displays the 'Table of Contents' for Lesson 2. It includes two main sections: 'Markup Language and Site Development Essentials' and 'HTML5 Coding'. Under 'Markup Language and Site Development Essentials', there are links to 'Creating Webpages', 'Mobile and Cloud Issues', 'Text Editors and Markup Languages', 'Graphical User Interface (GUI) Edition', 'History of Markup Languages', 'The HTML, Web Development Triad: HTML5, CSS3 and JavaScript', 'Website Development Principles', 'Hosting and Web Service Providers', 'The uCorp Website', 'Lesson Summary', and 'Optional Labs'. Under 'HTML5 Coding', there are links to 'Introduction to Using HTML', 'Elements and Markup Tags', 'Document Structure Tags', 'Website File Structure', 'Preparing Your Development Environment', and 'Paragraph Formatting and Block-Level Elements'. Each section has a 'Cards' and 'Quizzes' button at the bottom right.

We will complete Lab 2-1: Creating a simple HTML5 page.

The screenshot shows the content for Lab 2-1: Creating a simple HTML5 page. The title is 'Lab 2-1: Creating a simple HTML5 page'. The objectives listed are 'OBJECTIVE 2.8.2: Creating pages with HTML5' and 'OBJECTIVE 2.12.1: Validating HTML documents'. The text explains that in this lab, you will create a basic file directory structure, and you will create an HTML page then validate it as HTML5. The steps are as follows:

1. If necessary, configure your operating system so that you can read the full extensions of all file names. This will allow you to find your HTML files more easily. In Windows 10, select Start | Control Panel | Appearance and Personalization | File Explorer Options, then select the View tab. Deselect the Hide extensions for known file types checkbox, select the Show hidden files, folders, and drives radio button. Click Apply and then click OK to close the File Explorer Options dialog box. Close the Control Panel.
2. Right-click the Desktop and select New | Folder.
3. Name the new folder `uCorp`.
4. Double-click the `uCorp` folder to open it. Inside, create a subfolder and name it `aboutus`.
5. You have now created a standard directory structure for a Website in which you can organize your images and CSS3 pages.
6. The `uCorp` folder will eventually contain the `aboutus.html` file, and the `uCorp/aboutus` folder will contain CSS files and Images of the `aboutus.html` page.
7. Right-click inside the `uCorp` folder, and select New | Text Document. Name the new text document `aboutus.html`. A warning dialog box may appear stating 'If you change a file name extension, the file might become unusable. Are you sure you want to change it?' Click Yes. You are changing a text file into an HTML document.
8. Right-click the `aboutus.html` file and open it in `Notepad++`. If `Notepad++` does not appear when you right-click, select Open with and choose Choose another app. Then double-click `Notepad++`. You will see that the `aboutus.html` file is currently empty.
9. In the blank `aboutus.html` file, enter the following code exactly as written:

```
<!DOCTYPE HTML>
<html>
<head>
    <meta name="keywords" content="CISI, HTML5, uCorp" />
```

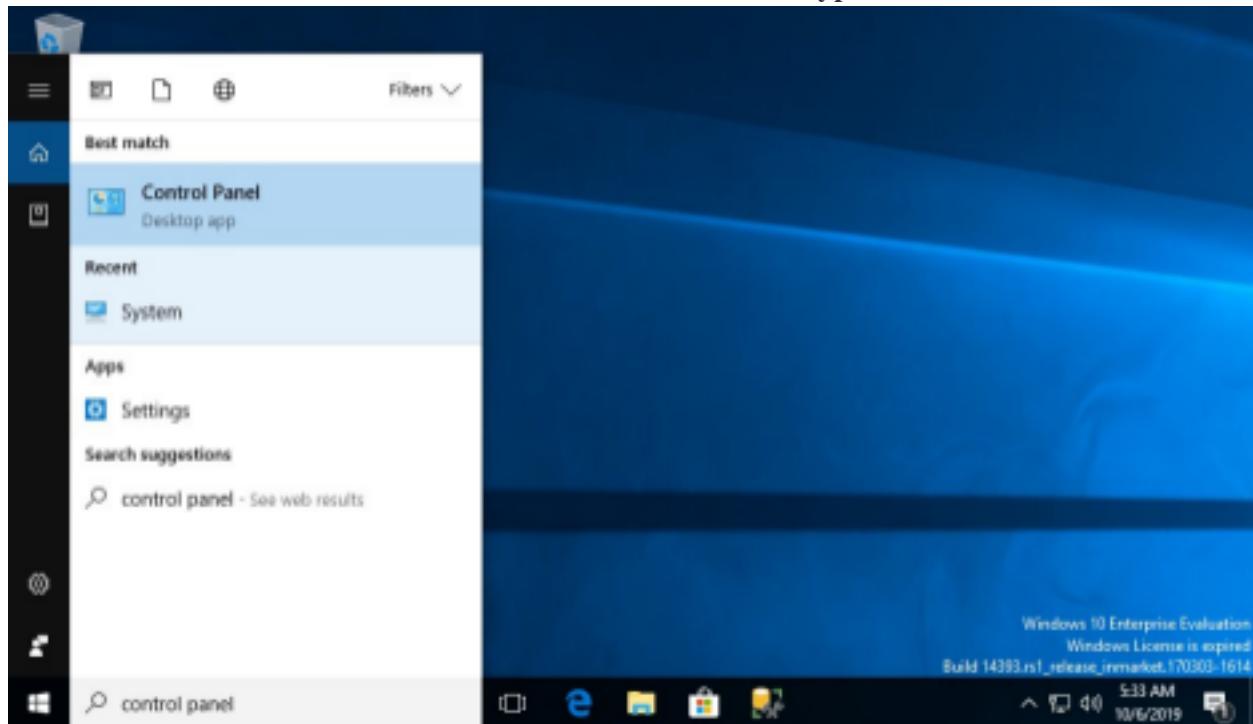
The bottom of the screen shows navigation buttons for 'Cards', 'Our', '<< Previous 19 of 127 Next >>', 'Go Back', and a refresh icon.

In this lab, you will create a basic file directory structure, and you will create an HTML page then validate it as HTML5.

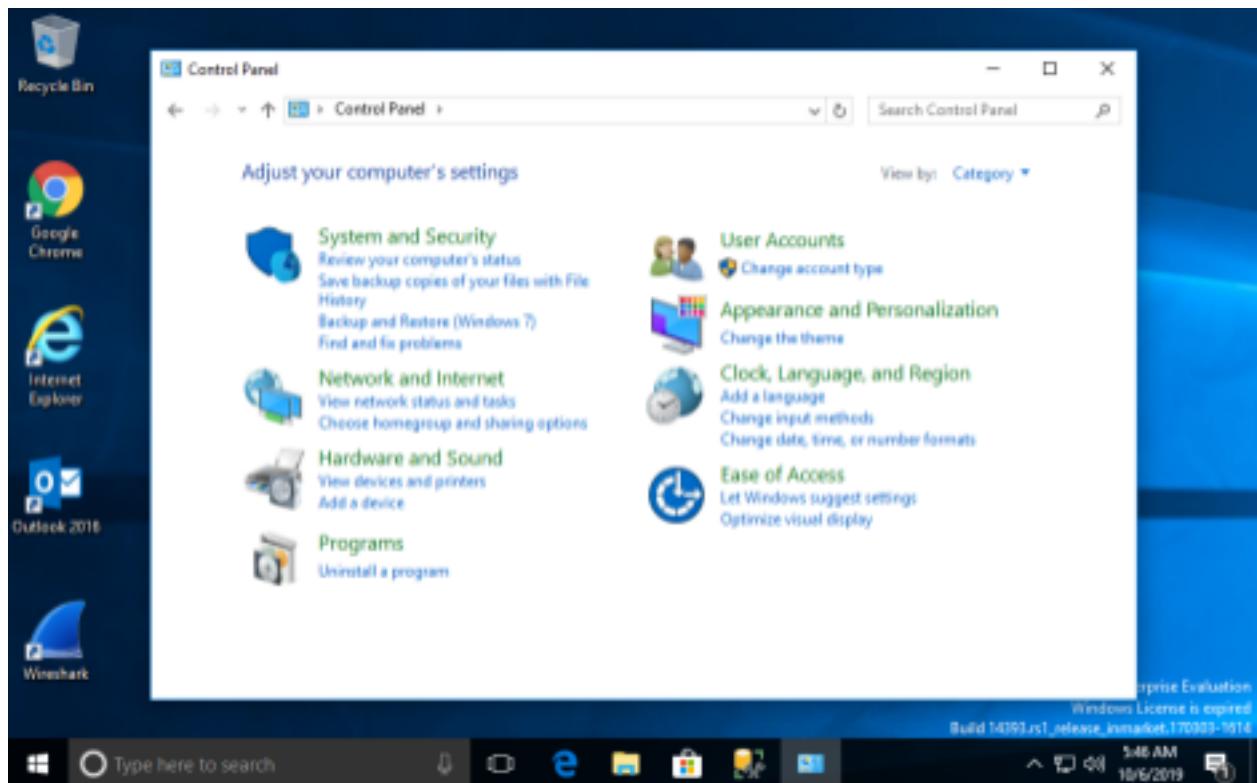
OBJECTIVE 2.9.2: Creating pages with HTML5

OBJECTIVE 2.12.1: Validating Web documents

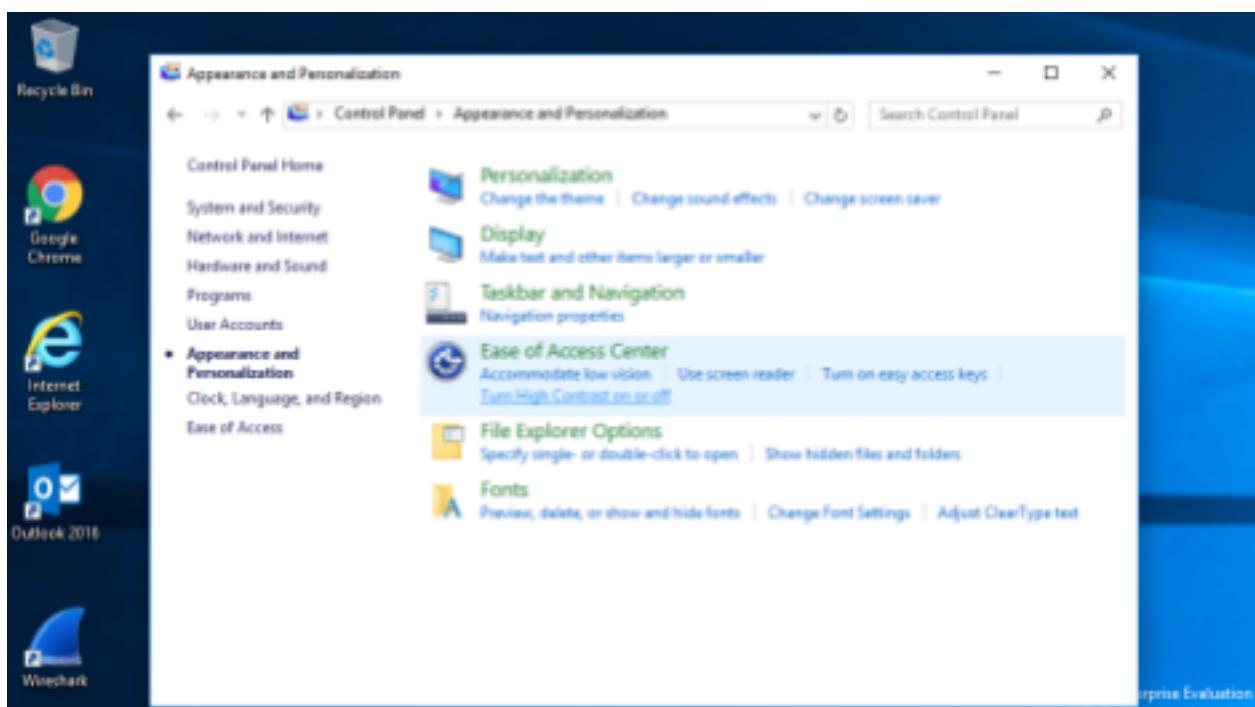
1. If necessary, configure your operating system so that you can read the full extensions of all file names. This will allow you to find your HTML files more easily. In Windows 10, select **Start | Control Panel | Appearance and Personalization | File Explorer Options**, then select the View tab. Deselect the **Hide Extensions For Known File Types** check box.



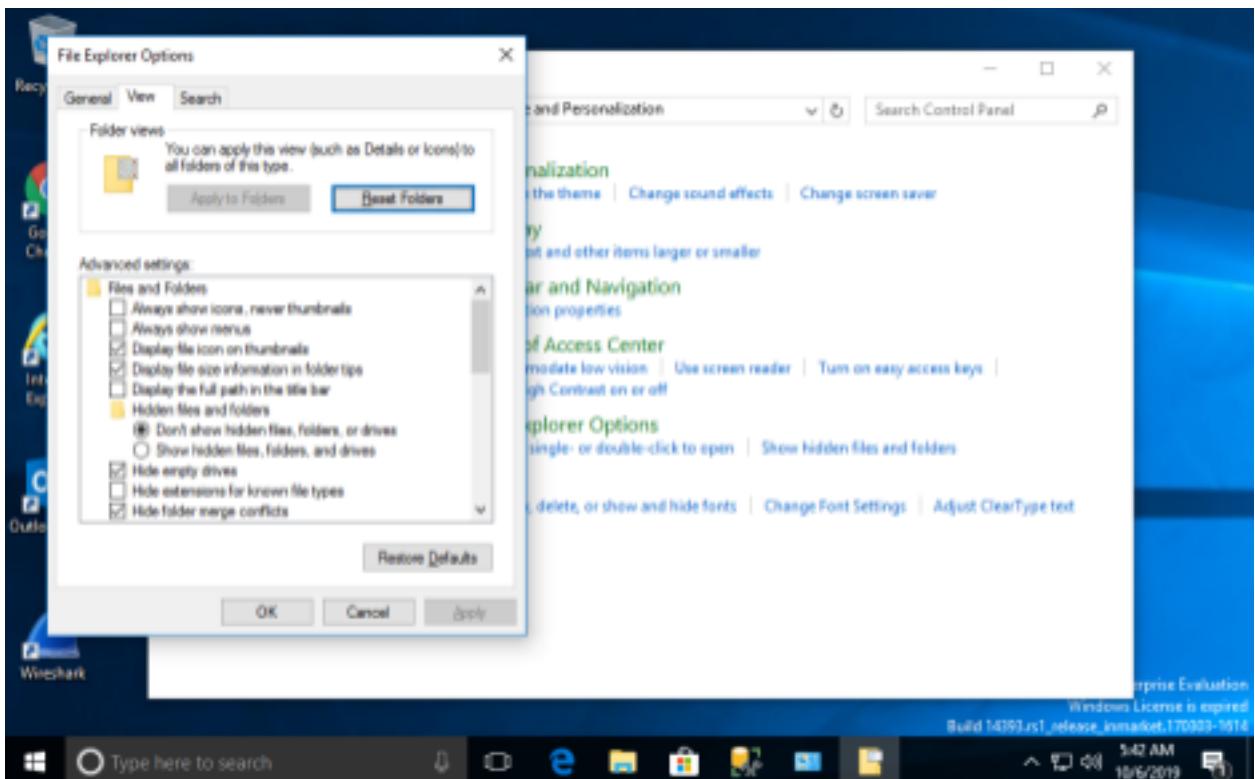
(select Appearance and Personalization)



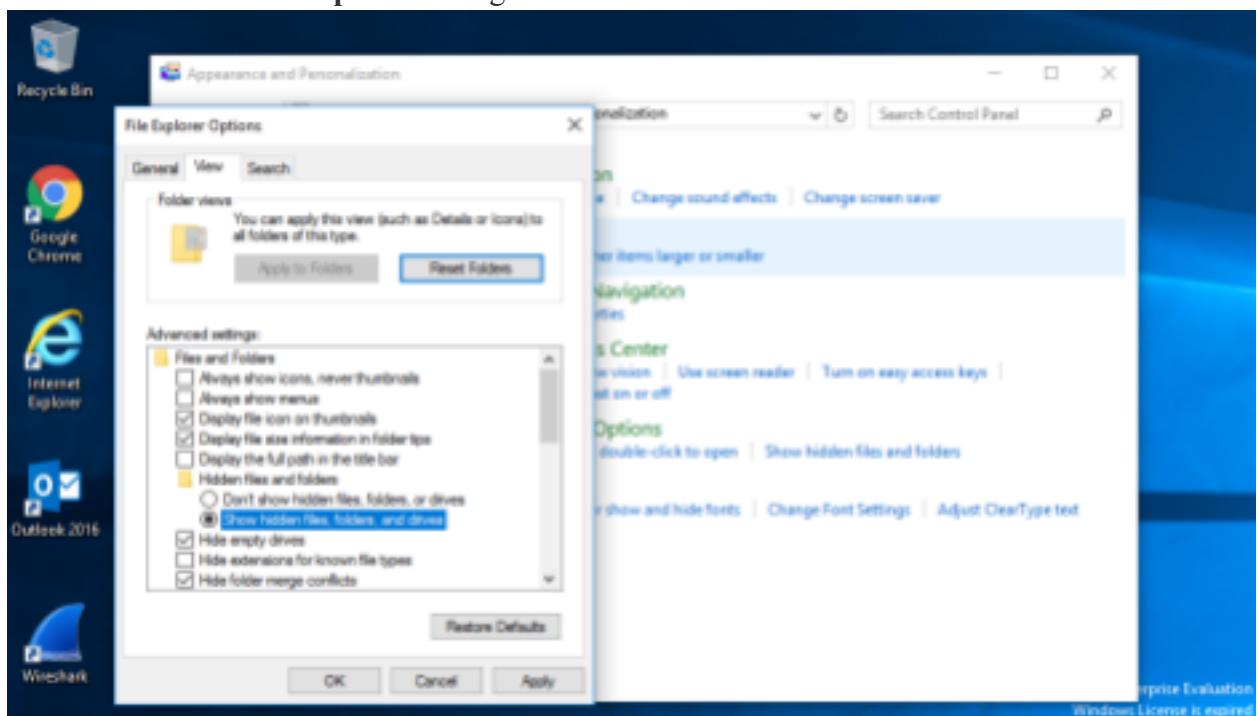
(select File Explorer Options.)



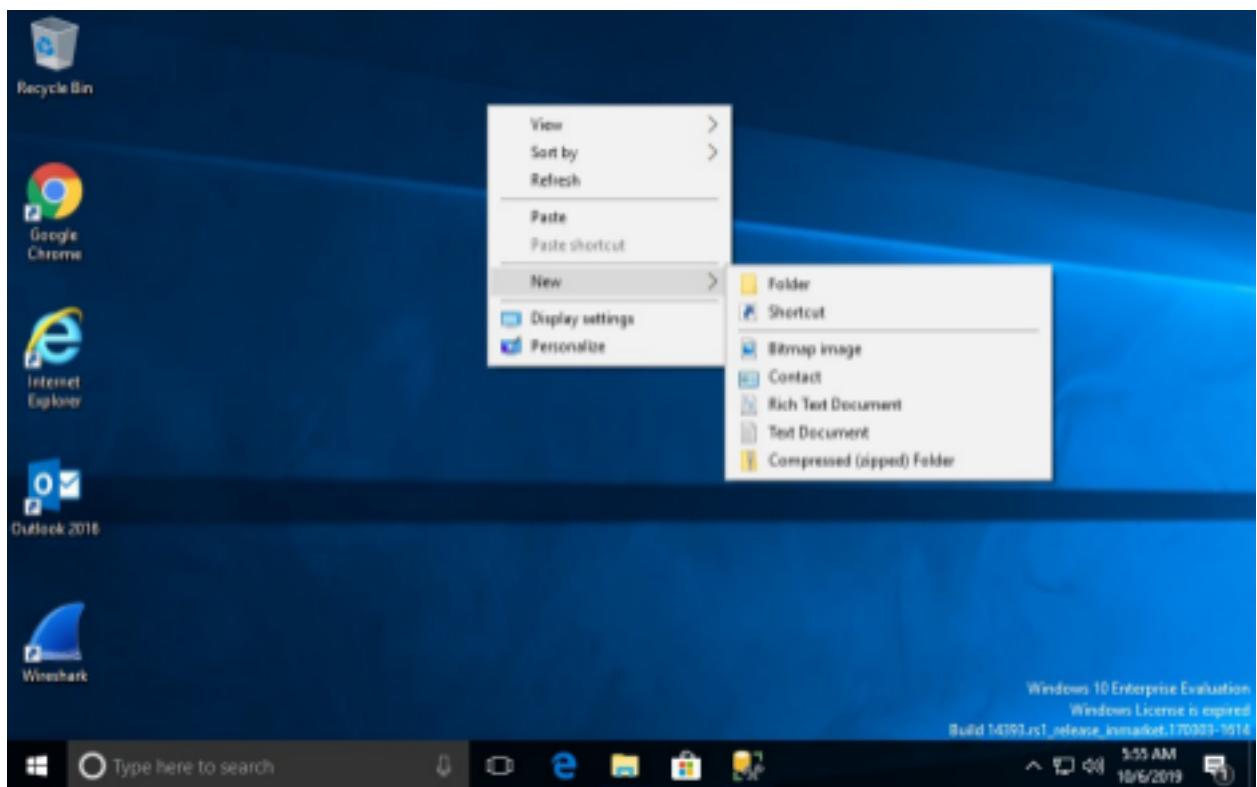
(Deselect the Hide Extensions For Known File Types check box.)



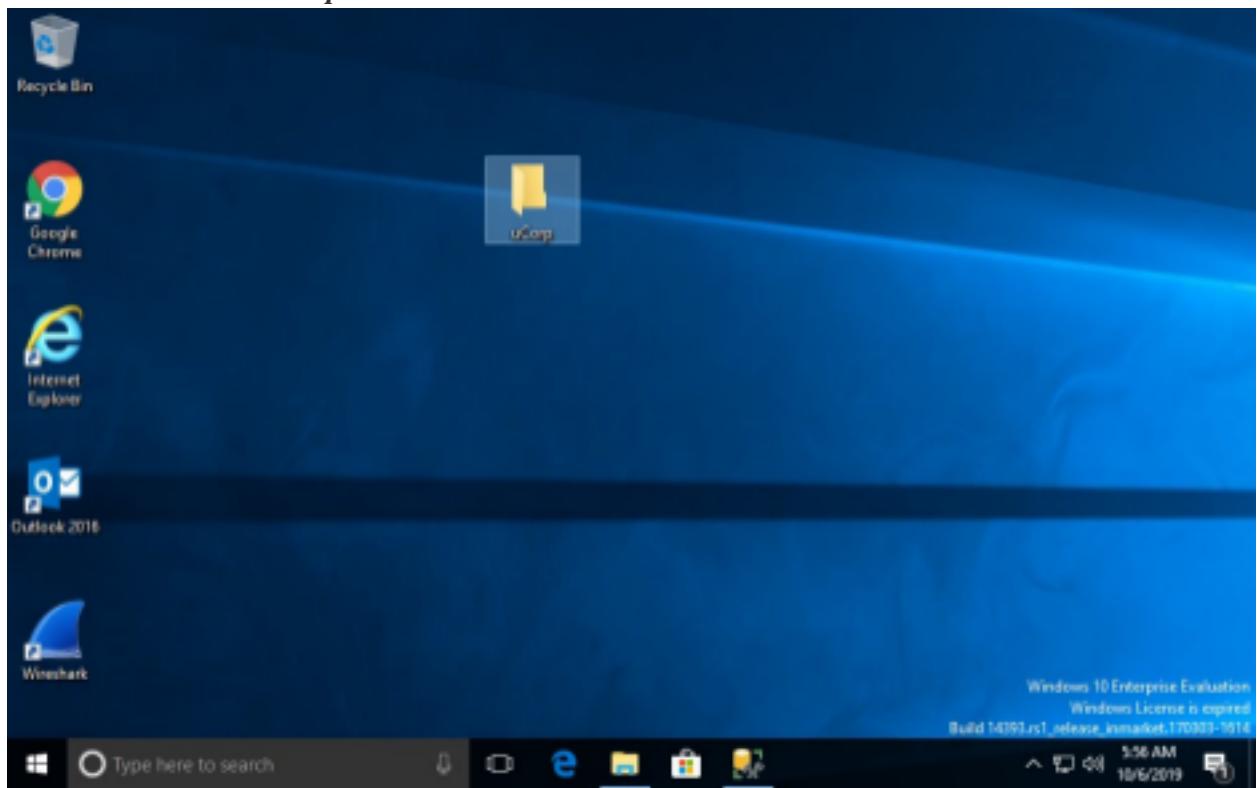
Select the Show Hidden Files, Folders, And Drives radio button. Click Apply and then click OK to close the Folder Options dialog box. Close the Control Panel.



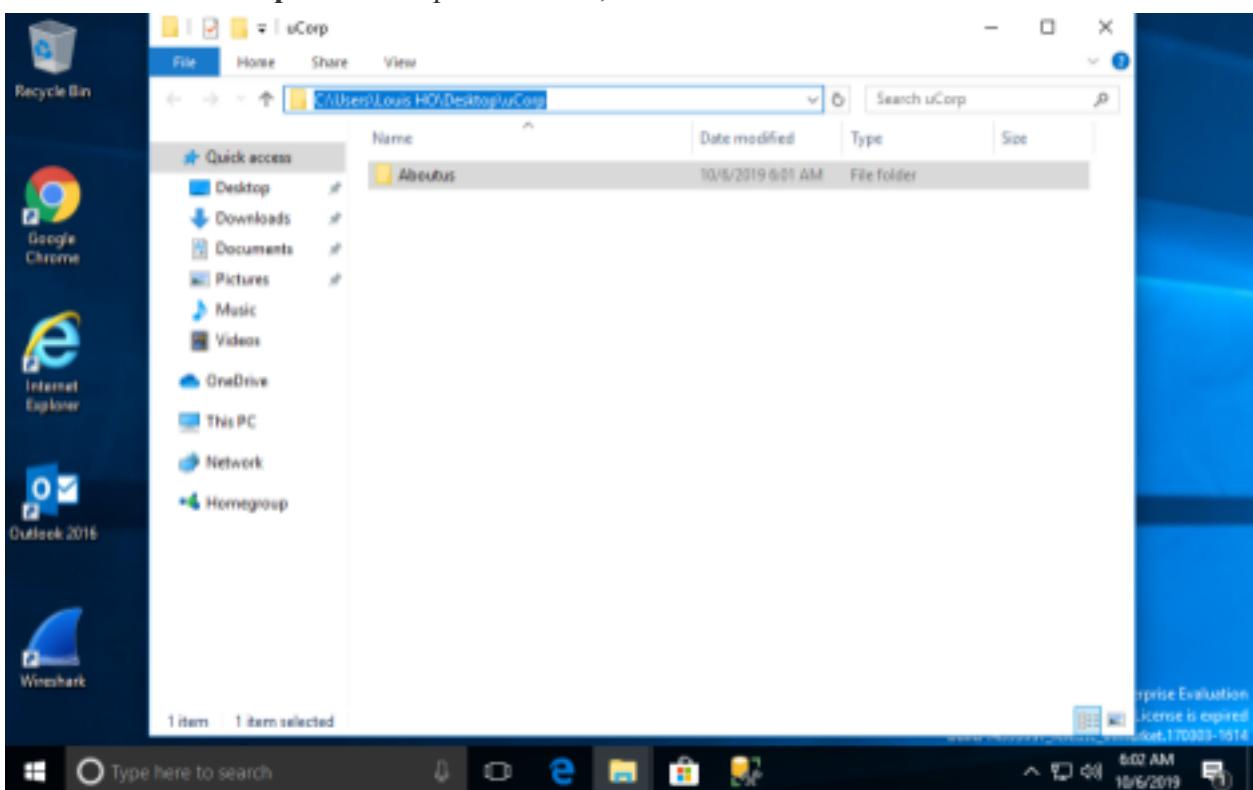
2. Right-click the Desktop and select New | Folder.



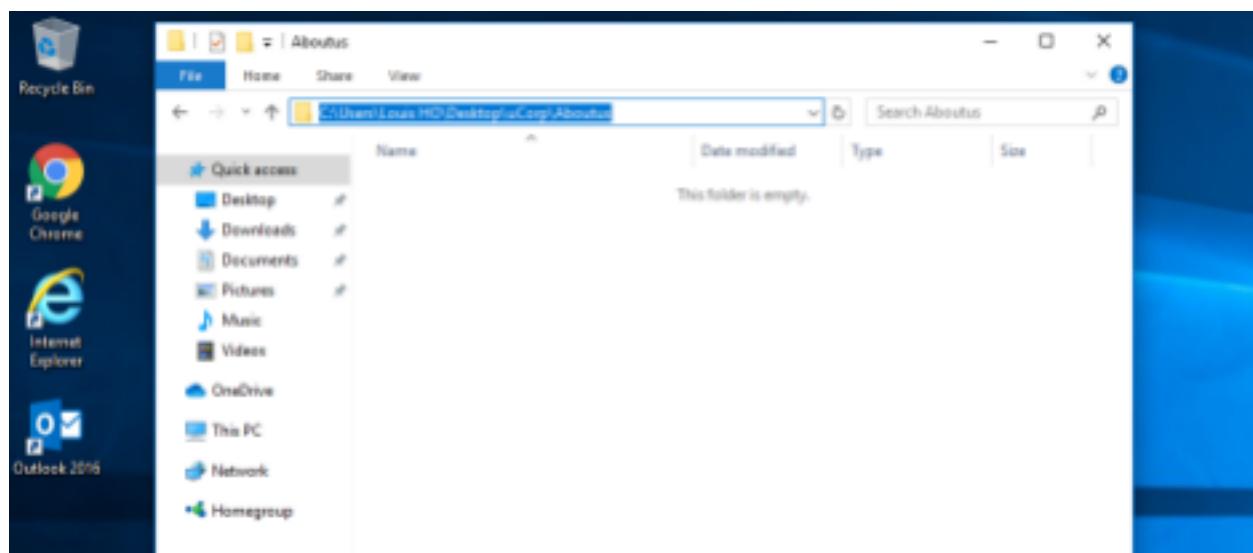
3. Name the new folder *uCorp*.



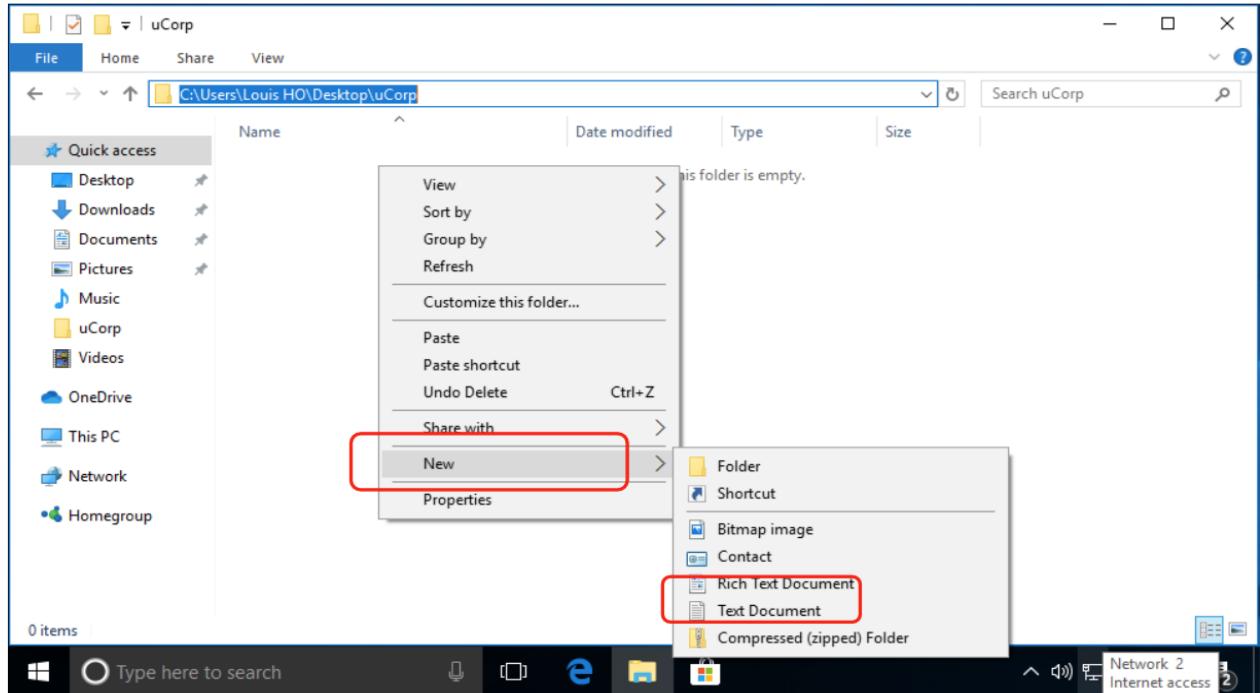
4. Double-click the **uCorp** folder to open it. Inside, create a subfolder and name it **Aboutus**.



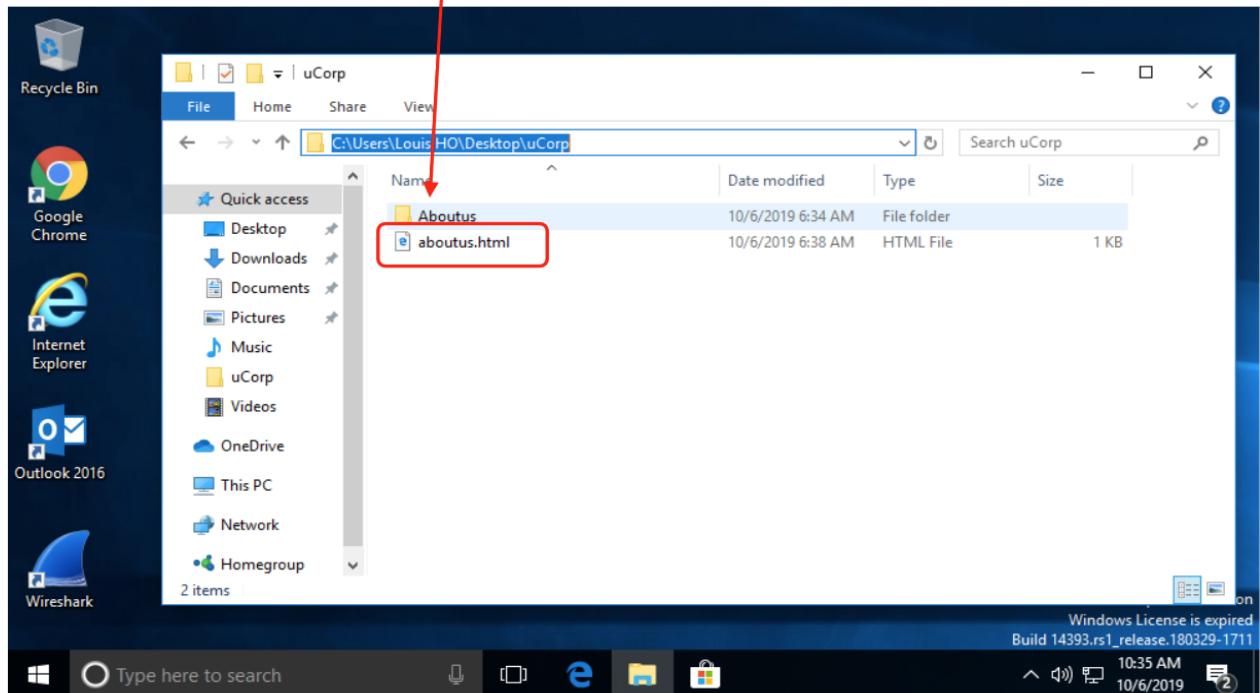
5. You have now created a standard directory structure for a Website in which you can organize your images and CSS3 pages.
6. The uCorp\ folder will eventually contain the aboutus.html file, and the uCorp\Aboutus\ folder will contain CSS files and images of the aboutus.html page.



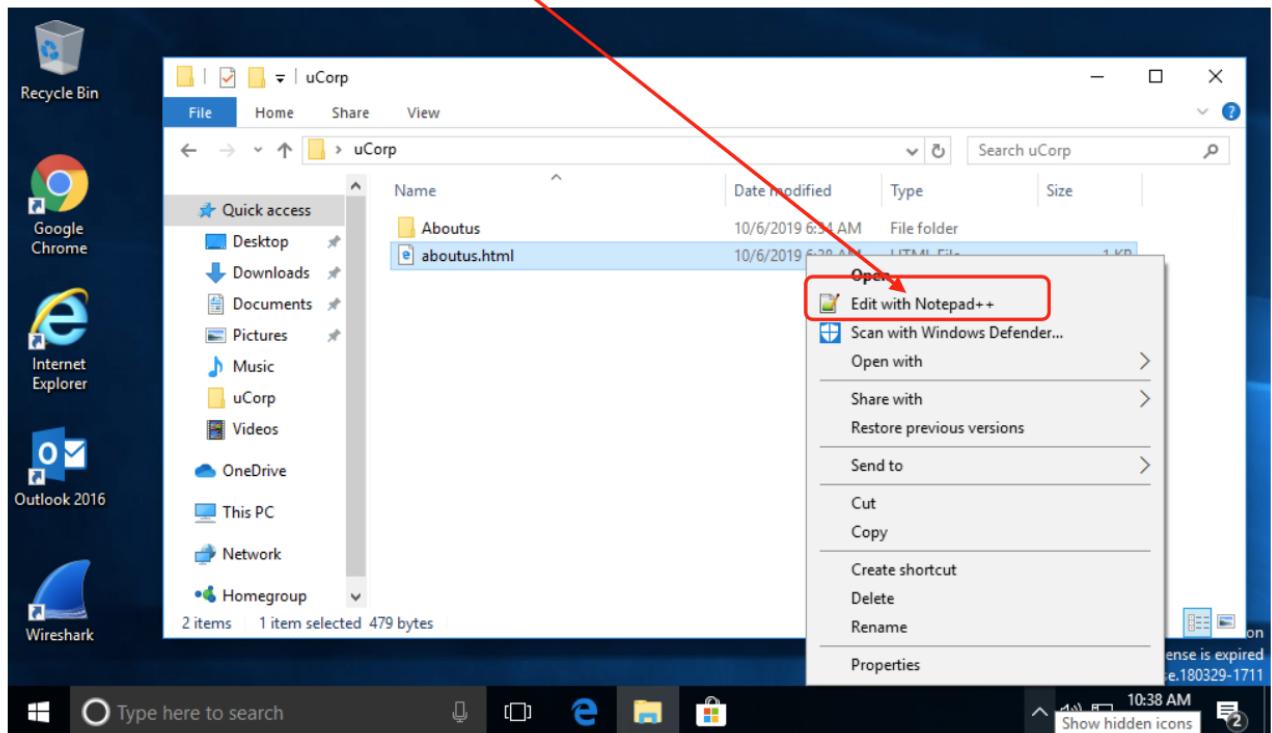
7. Right-click inside the **uCorp** folder, and select **New | Text Document**.



Name the new text document ***aboutus.html***. A warning dialog box may appear stating "If you change a file name extension, the file might become unusable. Are you sure you want to change it?" Click **Yes**. You are changing a text file into an HTML document.



8. Right-click the **aboutus.html** file and open it in **Notepad** (I use **Notepad++**). If Notepad does not appear when you right-click, select **Choose Default Program**. Click the down arrow next to **Other Programs** and double-click **Notepad**. You will see that the **aboutus.html** file is currently empty.



9. In the blank **aboutus.html** file, enter the following code exactly as written:

```
<!DOCTYPE html>

<html>

<head>
<meta name="keywords" content="CIW, HTML5, uCorp"/>
<meta name="description" content="Simple XHTML page for uCorp site"/>
<meta charset="UTF-8"/>
<title>Welcome to uCorp</title>
</head>

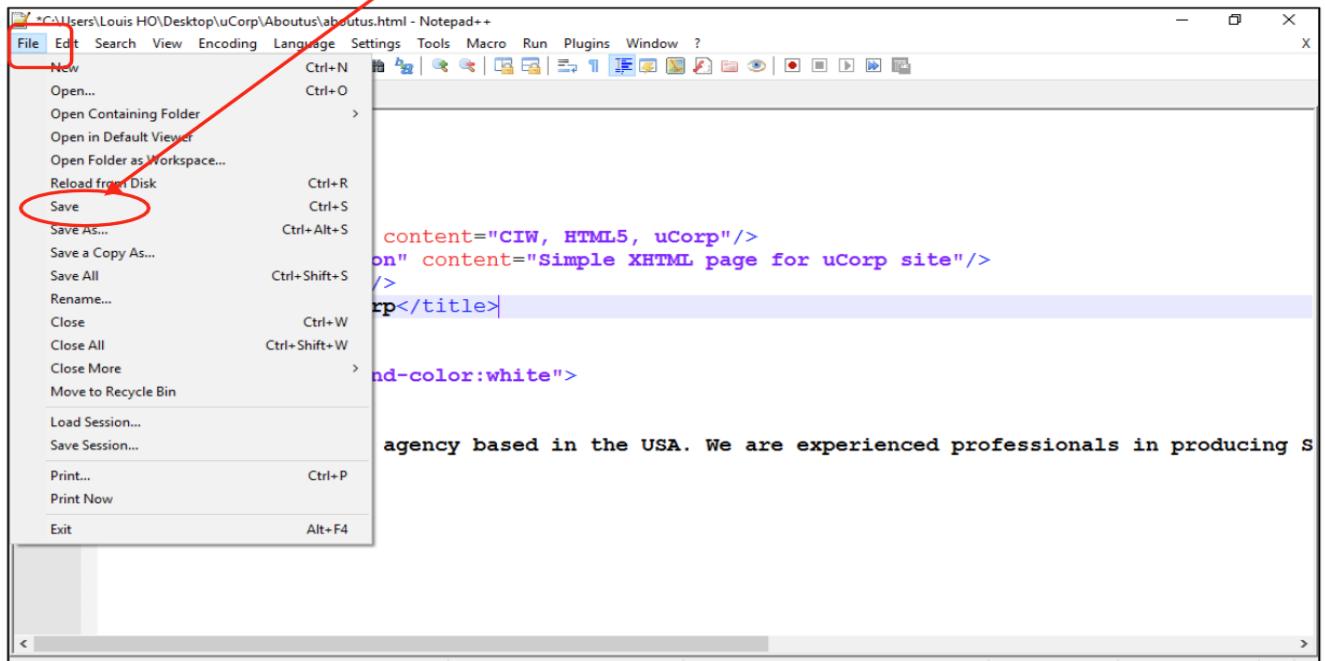
<body style="background-color:white">

Welcome to uCorp.
We are a full digital agency based in the USA. We are experienced professionals in
producing Speakers, Sub-woofers, Amplifiers. This page will validate as HTML5.

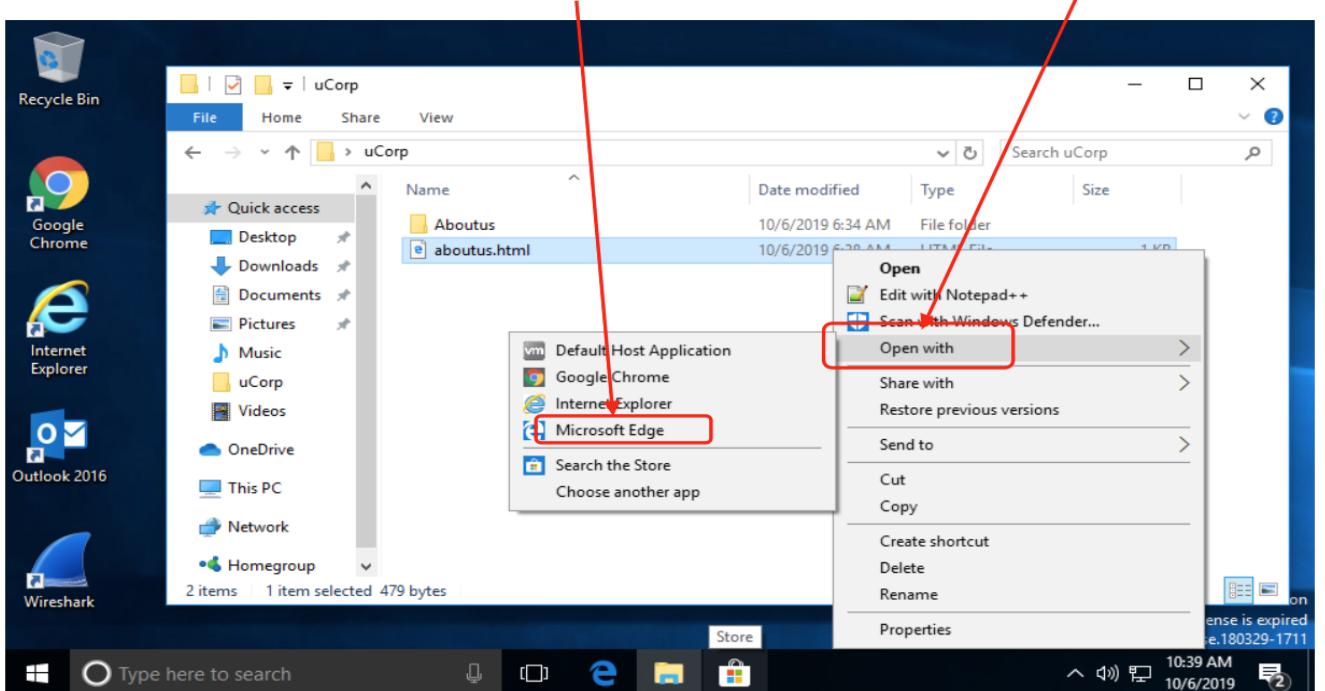
</body>
</html>
```

The screenshot shows the Notepad++ application window with the file "aboutus.html" open. The code is identical to the one provided above. The status bar at the bottom displays various information: "length: 474 lines: 19 Ln: 19 Col: 1 Sel: 0/0 Windows (CR LF) UTF-8 INS". A red arrow points from the text area down towards the status bar.

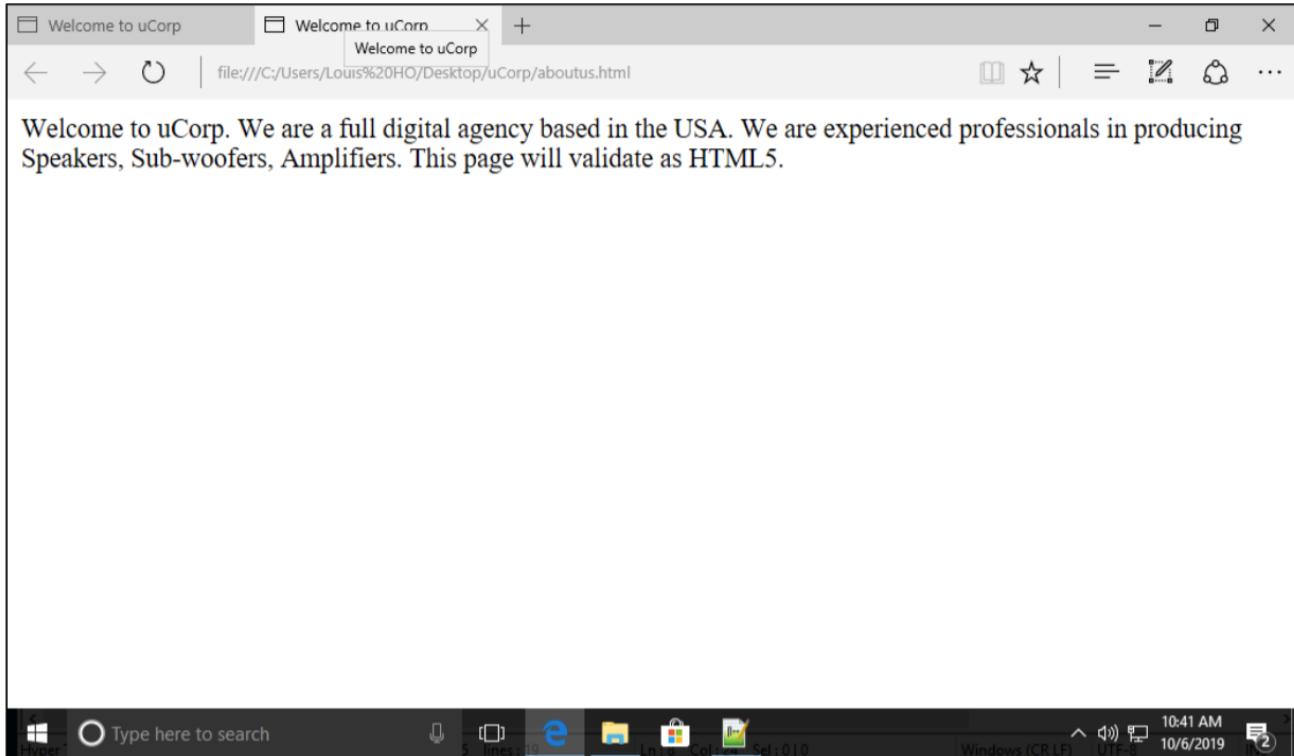
10. Once you have inserted this code, save your changes. Make sure that your file is named **aboutus.html**, not aboutus.txt or anything else. You may have to close Notepad (Notepad++) to rename the file.



11. Now, open **aboutus.html** in a Web browser by right-clicking the file, selecting **Open With**, and choosing an HTML5-compliant browser (or **Google Chrome**, **Firefox**).



It should resemble the following Figure.



Screenshot 1: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

Note: You can use any Web browser. In fact, you are encouraged to view code in multiple browsers to ensure that you are creating pages that render well in various environments.

12. As you can see, you have created a rudimentary Webpage that will validate as HTML5, as long as you have entered the code correctly. To verify this, visit <http://validator.w3.org>. You will see the W3C Markup Validation Service Webpage, as shown in Figure 2-4.

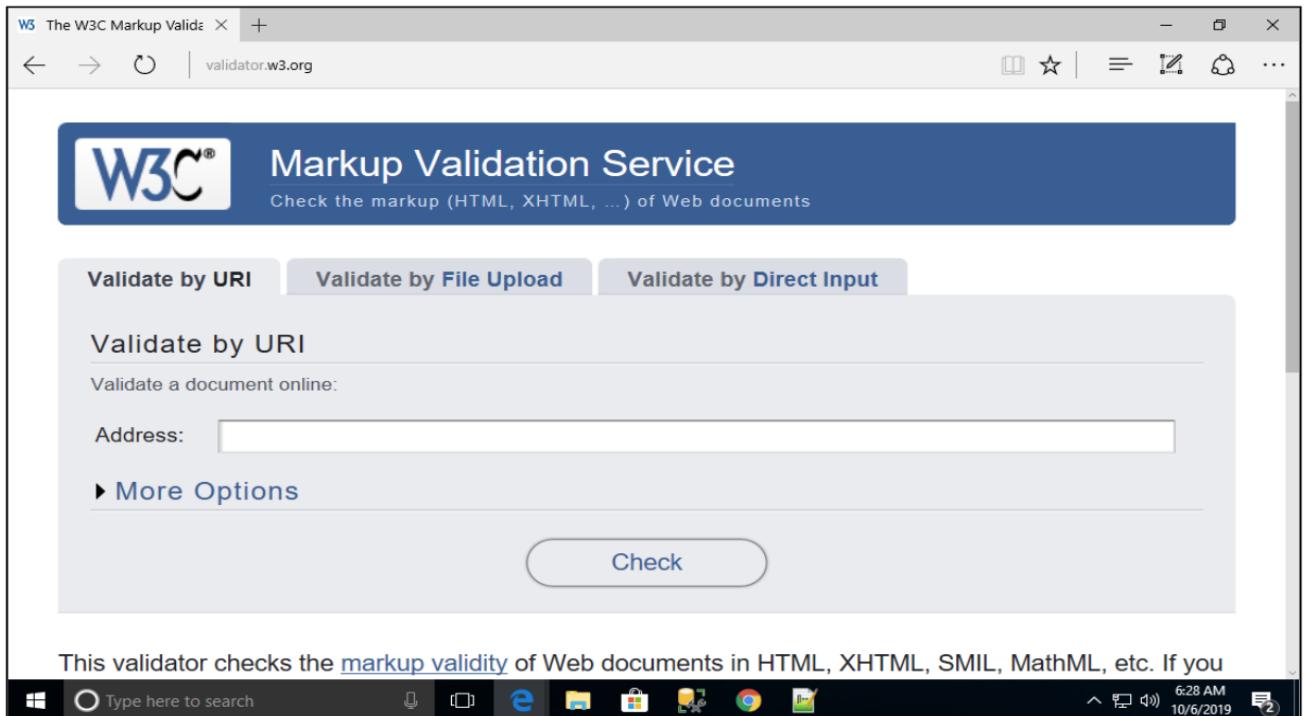
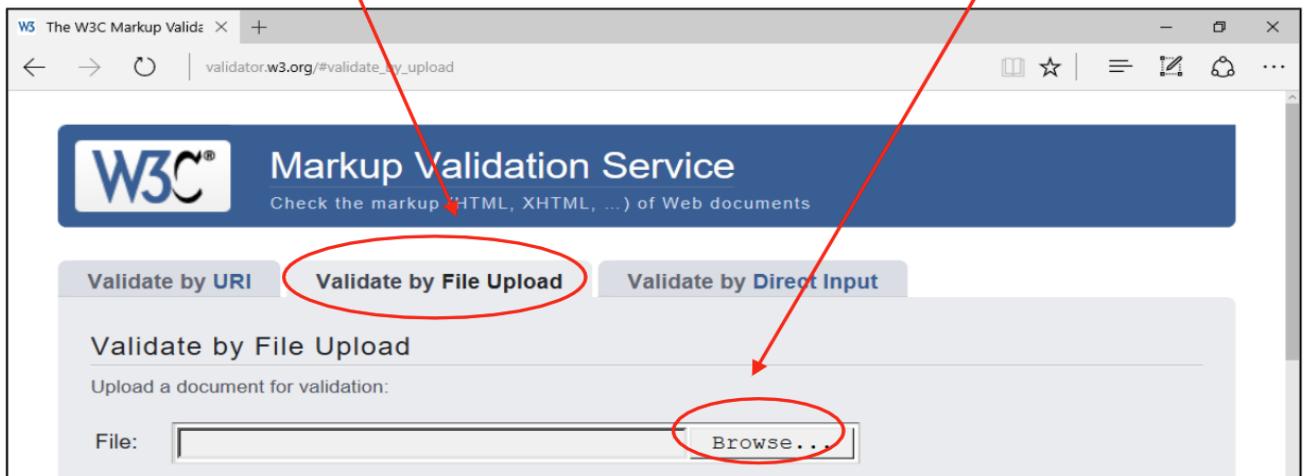
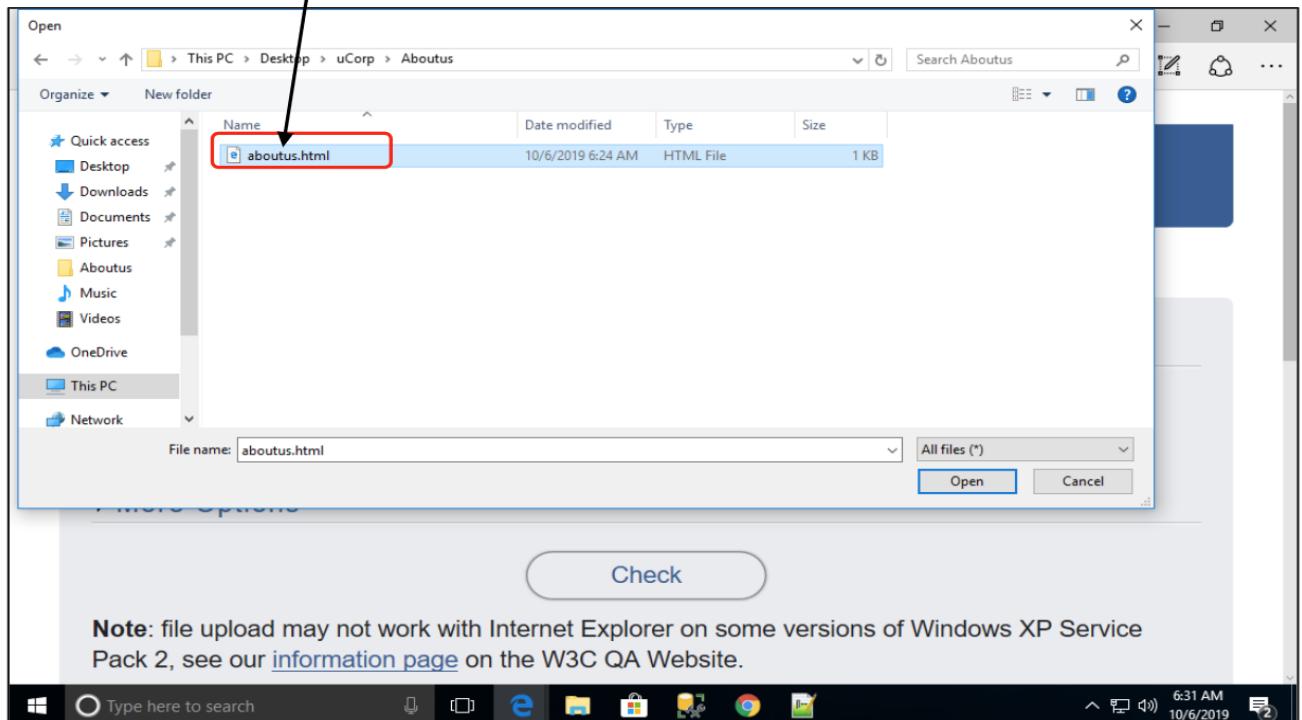


Figure 2-4: W3C Markup Validation Service Webpage

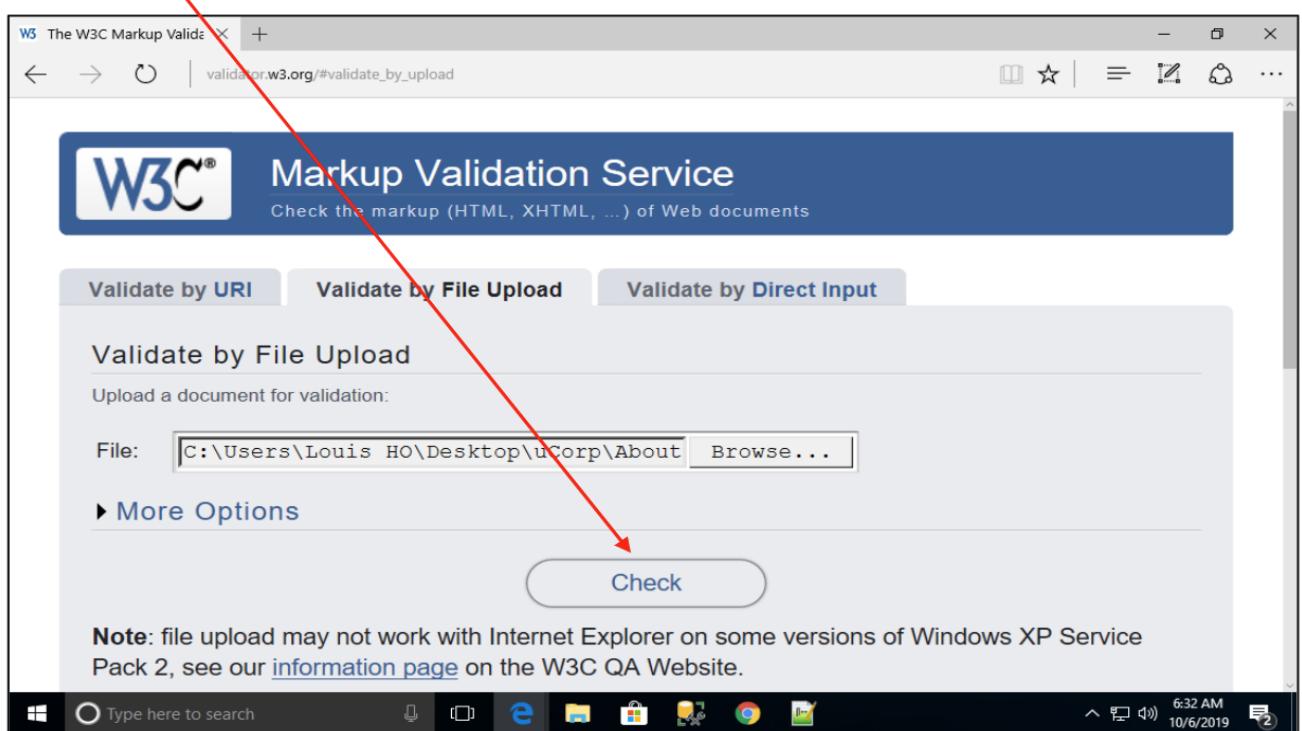
13. Click the **Validate By File Upload** link. In the File text box, click the **Browse** button.



Navigate to the **aboutus.html** file you have created and select it by double-clicking.



14. Click the **Check** button.



15. If your code does not validate, make appropriate changes. Warnings are OK and do not mean you made an error. In Figure 2-5, the warning states that you should consider adding a *lang* attribute to declare the language of the document. You can ignore this warning for the purposes of this lab.

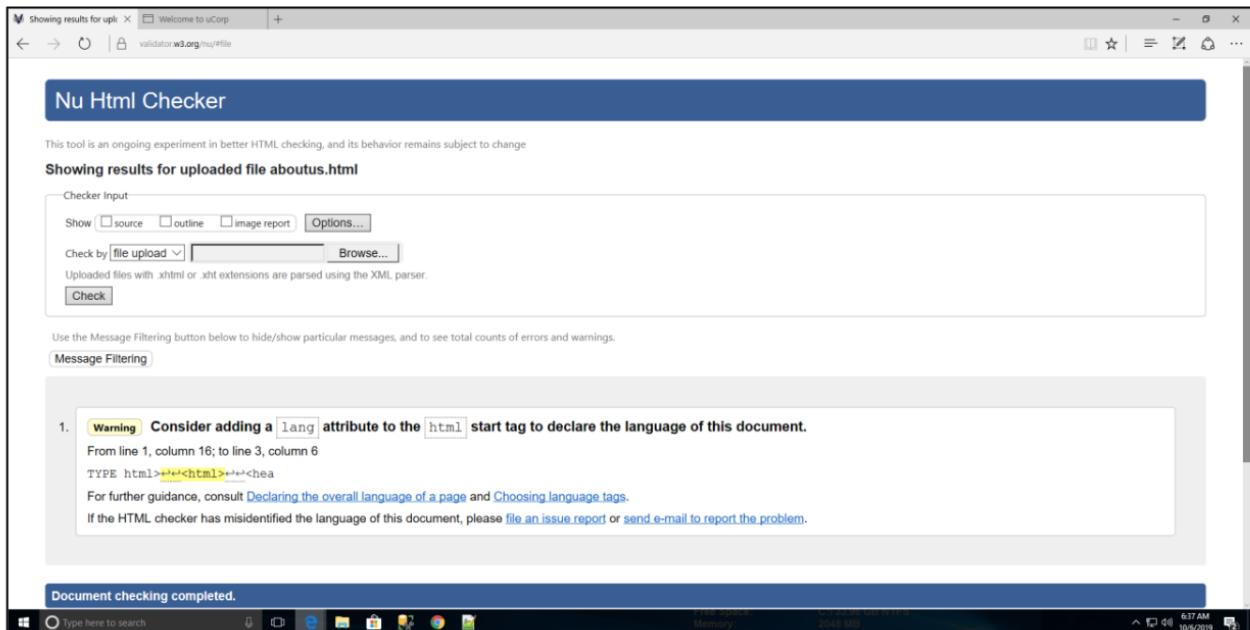


Figure 2-5: Successful HTML5 validation with one warning

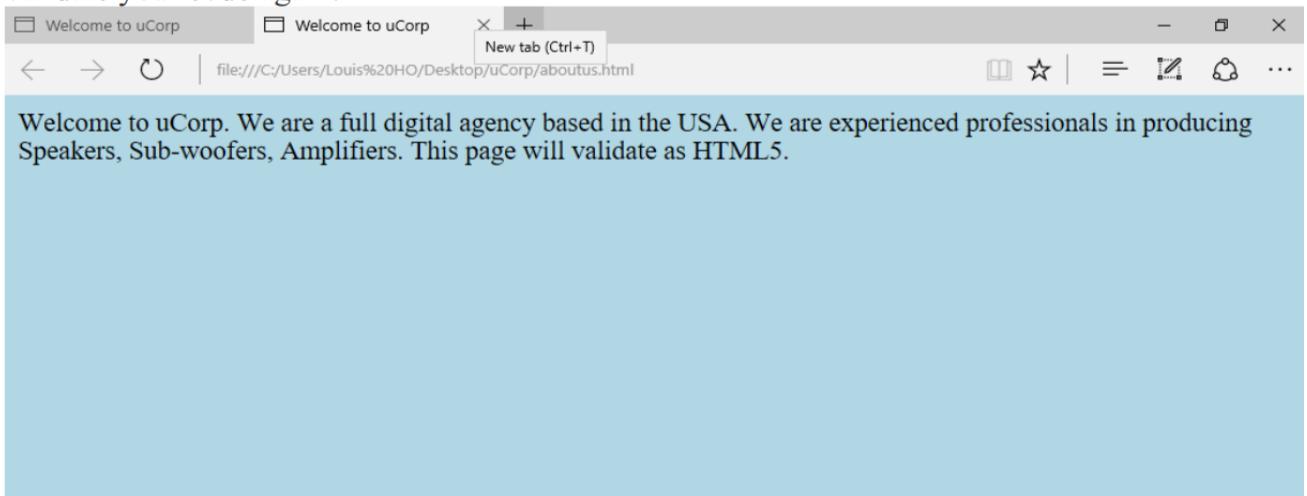
Screenshot 2: Click PrtScreen (or Alt+PrtScreen) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

16. Once your code validates, change the background color of your page to light blue. To do this, find the `<body style="background-color:white">` tag, then change the *style* attribute value to read as follows:



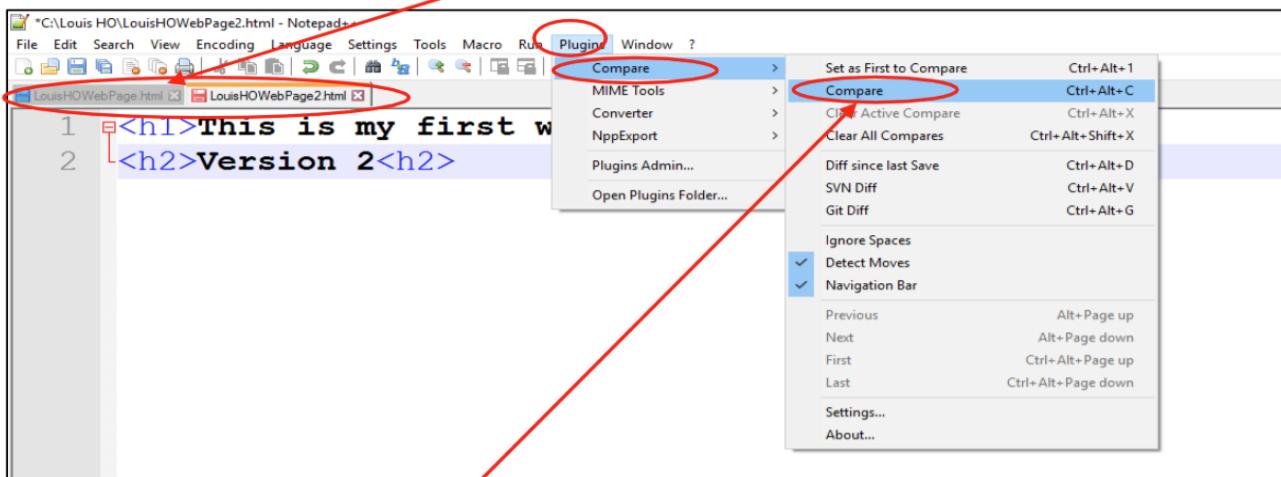
```
*C:\Users\Louis HO\Desktop\uCorp\Aboutus\aboutus.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
change.log aboutus.html
1 <!DOCTYPE html>
2
3 <html>
4
5 <head>
6 <meta name="keywords" content="CIW, HTML5, uCorp"/>
7 <meta name="description" content="Simple XHTML page for uCorp site"/>
8 <meta charset="UTF-8"/>
9 <title>Welcome to uCorp</title>
10 </head>
11
12 <body style="background-color:lightblue">
13
14 Welcome to uCorp.
15 We are a full digital agency based in the USA. We are experienced professionals in producing s
16
17 </body>
18 </html>
```

17. Save **aboutus.html**, then open it in your Web browser again.
18. Notice the change in color. Experiment with changing to other background colors. Then validate your code again.



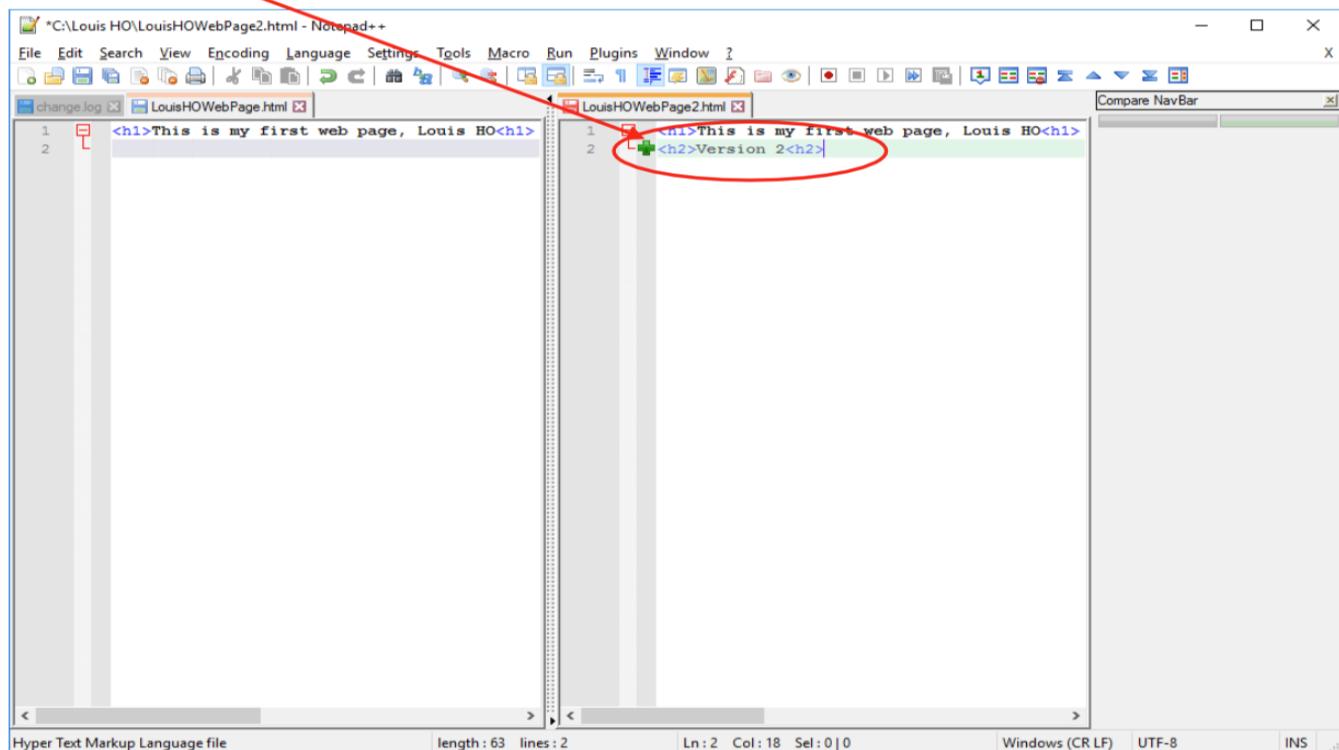
Screenshot 3: Click PrtScreen (or Alt+PrtScreen) to take a screen shot of the result and paste it in a Microsoft Word document. Submit the Microsoft Word document at the end of the labs through Canvas together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the Microsoft Word document.

Make sure both the original webpage and the modified webpage are open in **Notepad++**.



Click **Plugin > Compare > Compare**.

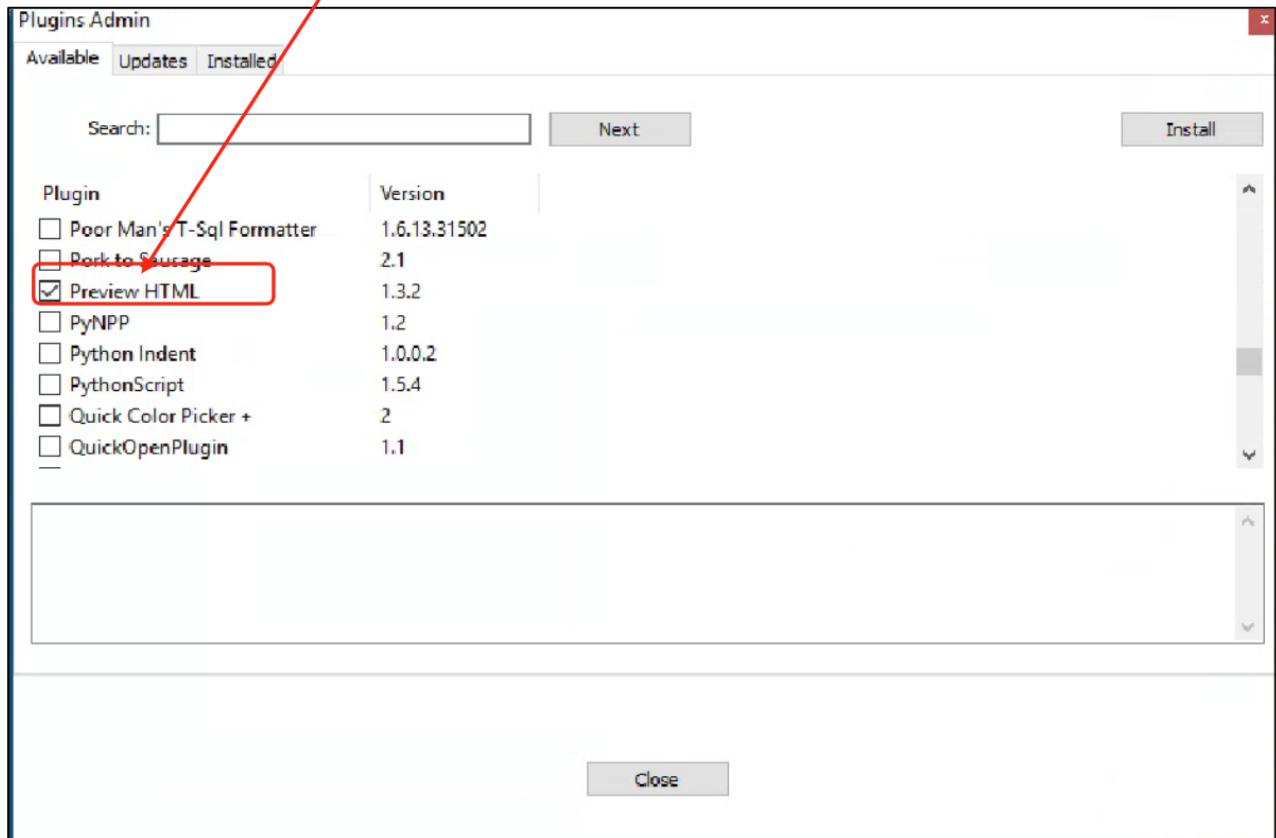
The difference between the two files are highlighted.



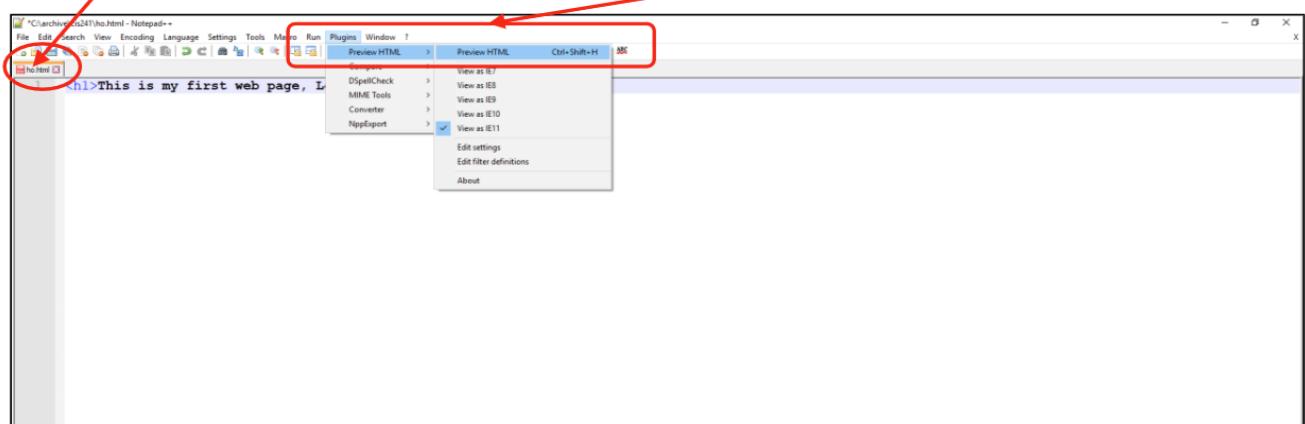
Screenshot 3: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. (**Be sure to include your name in your screenshot!!!**)

Step 1. Week 2 - Lesson 1 Markup Language and Site Development Essential
Challenge: Install Preview HTML plugin in Notepad++

Challenge: Install **Preview HTML** plugin in **Notepad++**. This plugin is useful in previewing your web page inside **Notepad++**.

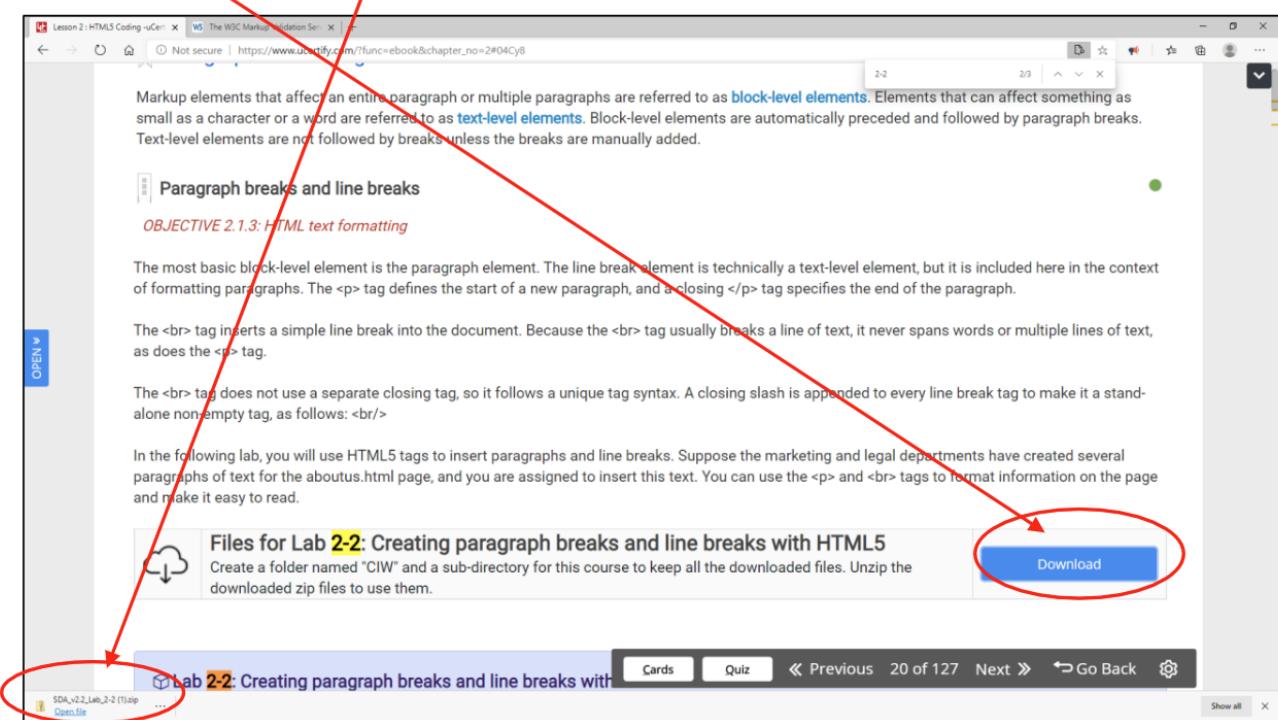


After you install the plugin, click **Plugins > Preview HTML > Preview HTML** to display your original webpage.

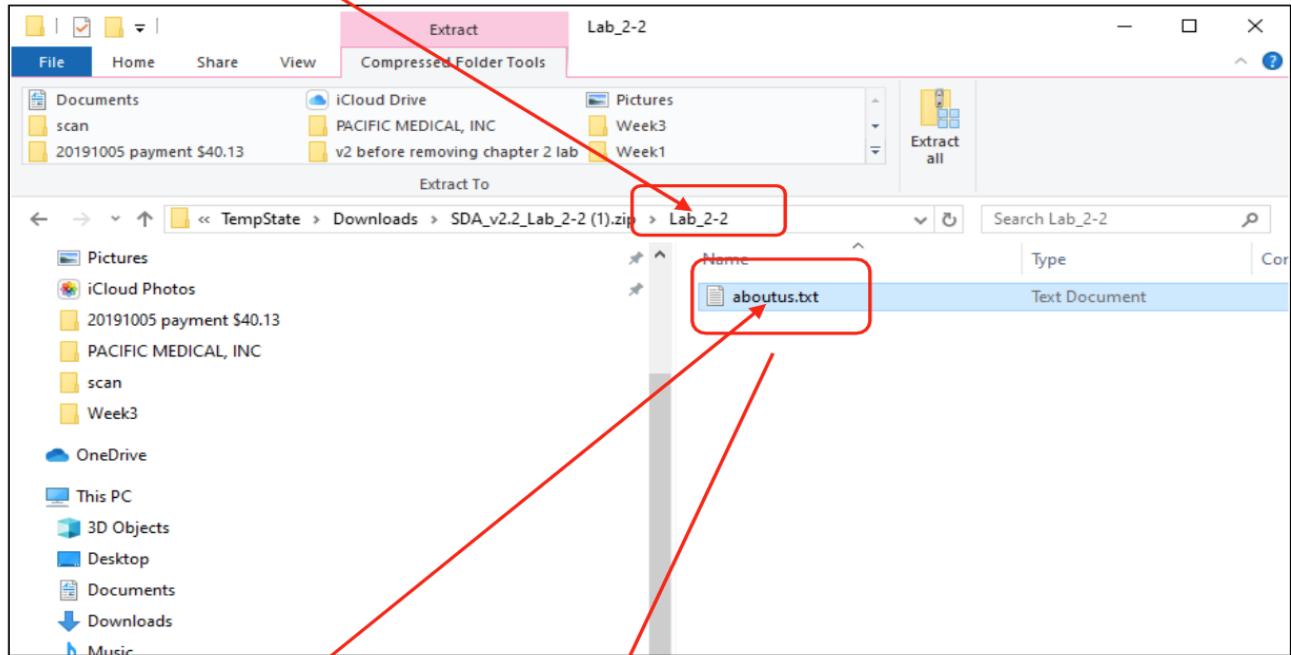


In this lab, you will use the <p> and
 tags to add paragraph breaks and line breaks to a Webpage.

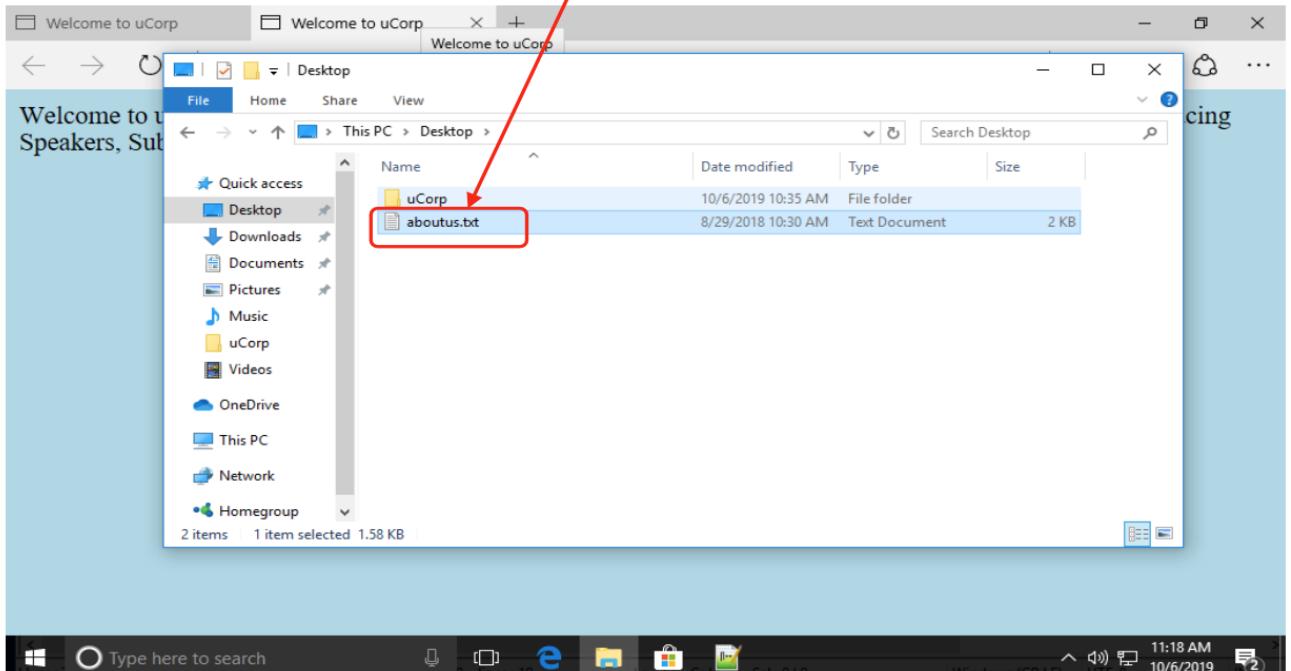
1. **Editor:** Open the file **aboutus.html**, which you edited in the previous lab.
2. **Editor:** Delete all text located between the <body></body> tags except for the "Welcome to uCorp" line. Place your cursor on a new line just below "Welcome to uCorp."
3. **Editor:** Minimize **aboutus.html**.
4. Click **Download**. Click **Open** to download and open **SDA_v2.2_Lab_2-2.zip**.



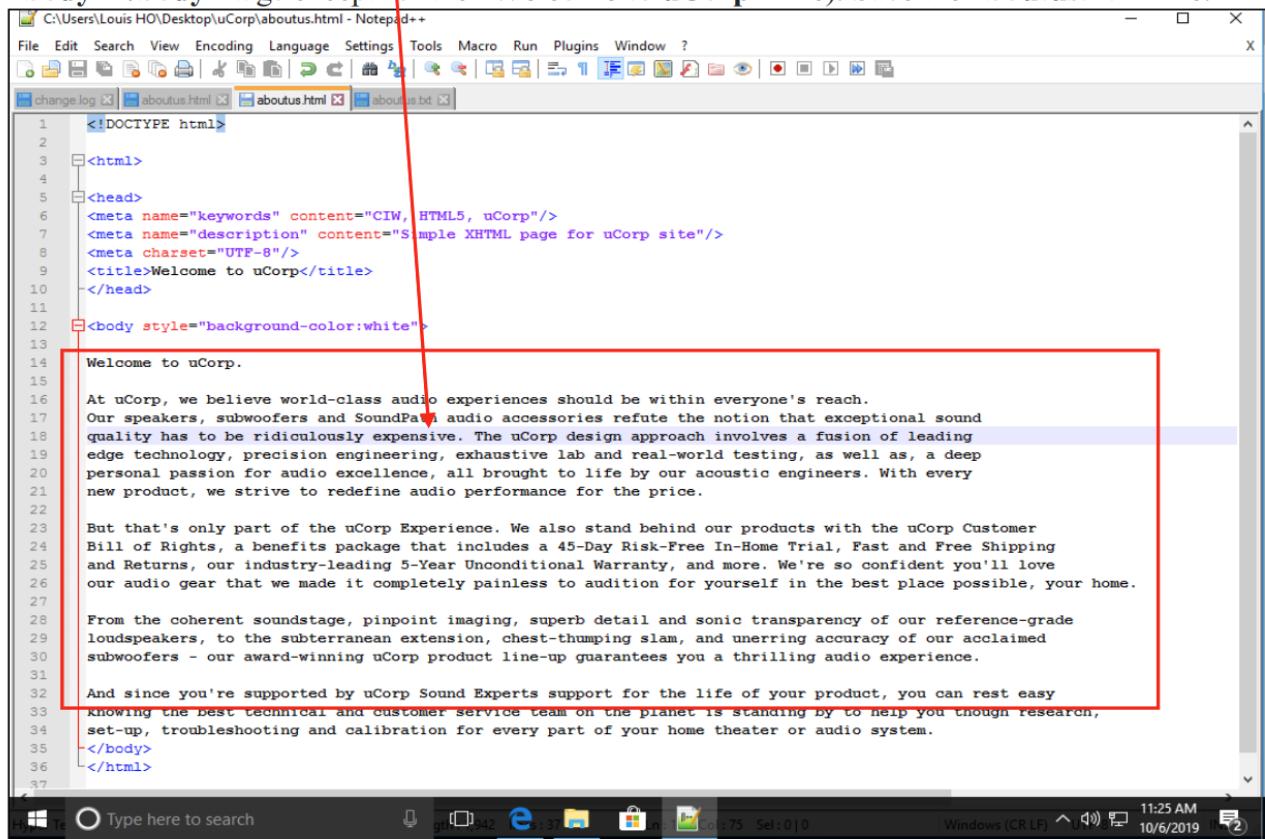
Navigate to the \Lab_2-2\ directory in the downloaded **SDA_v2.2_Lab_2-2.zip** file.



Copy the file **aboutus.txt** to your Desktop, then open it in the text editor. Notice that the text is organized into four separate paragraphs.

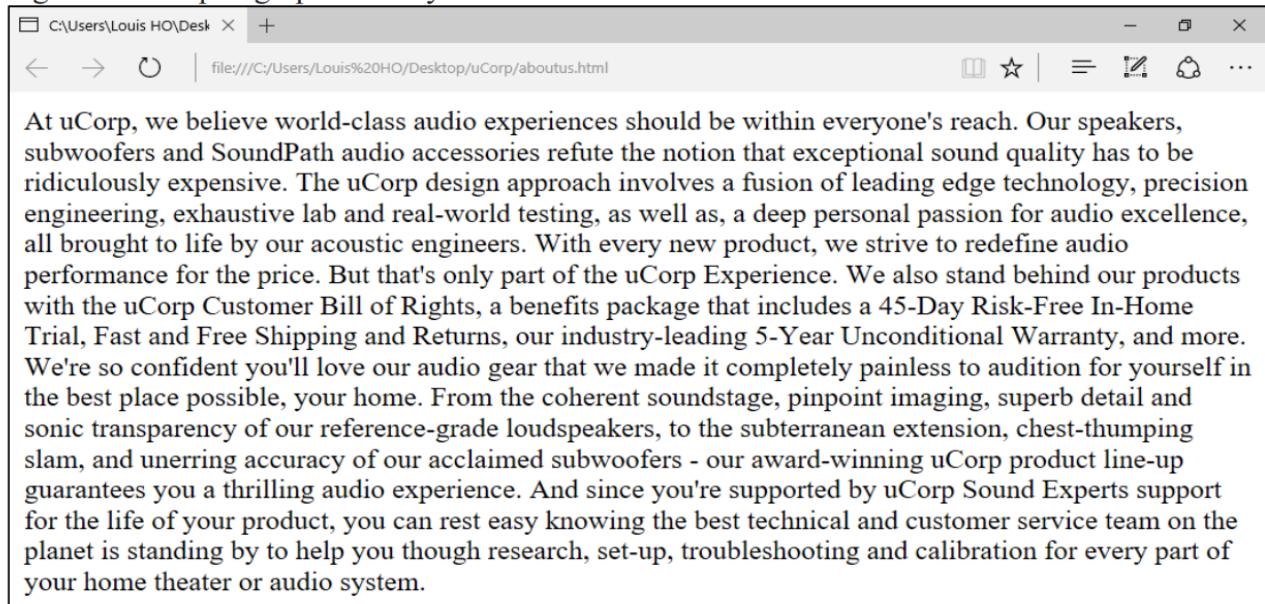


5. Copy the contents of the **aboutus.txt** file and paste it into **aboutus.html** (between the **<body></body>** tags except for the "Welcome to uCorp" line). Save the **aboutus.html** file.



```
C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?  
change.log aboutus.html aboutus.html aboutus.txt  
1 <!DOCTYPE html>  
2  
3 <html>  
4 <head>  
5 <meta name="keywords" content="CIW, HTML5, uCorp"/>  
6 <meta name="description" content="Simple XHTML page for uCorp site"/>  
7 <meta charset="UTF-8"/>  
8 <title>Welcome to uCorp</title>  
9 </head>  
10  
11 <body style="background-color:white">  
12  
13 Welcome to uCorp.  
14  
15 At uCorp, we believe world-class audio experiences should be within everyone's reach.  
16 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound  
17 quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading  
18 edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep  
19 personal passion for audio excellence, all brought to life by our acoustic engineers. With every  
20 new product, we strive to redefine audio performance for the price.  
21  
22 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer  
23 Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping  
24 and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love  
25 our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.  
26  
27 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade  
28 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed  
29 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.  
30  
31 And since you're supported by uCorp Sound Experts support for the life of your product, you can rest easy  
32 knowing the best technical and customer service team on the planet is standing by to help you though research,  
33 set-up, troubleshooting and calibration for every part of your home theater or audio system.  
34  
35 </body>  
36 </html>  
37
```

6. Load **aboutus.html** into a browser. You will now see more text on the Webpage, but it is not organized into paragraphs when you view it in a browser.



7. Edit the text in aboutus.html to add paragraphs breaks that will be recognized by a browser. Add the following code shown in bold:

Welcome to Ucorp.

<p>

At uCorp, we believe world-class audio experiences should be within everyone's reach. Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep personal passion for audio excellence, all brought to life by our acoustic engineers. With every new product, we strive to redefine audio performance for the price.

</p>

<p>

But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.

</p>

<p>

From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.

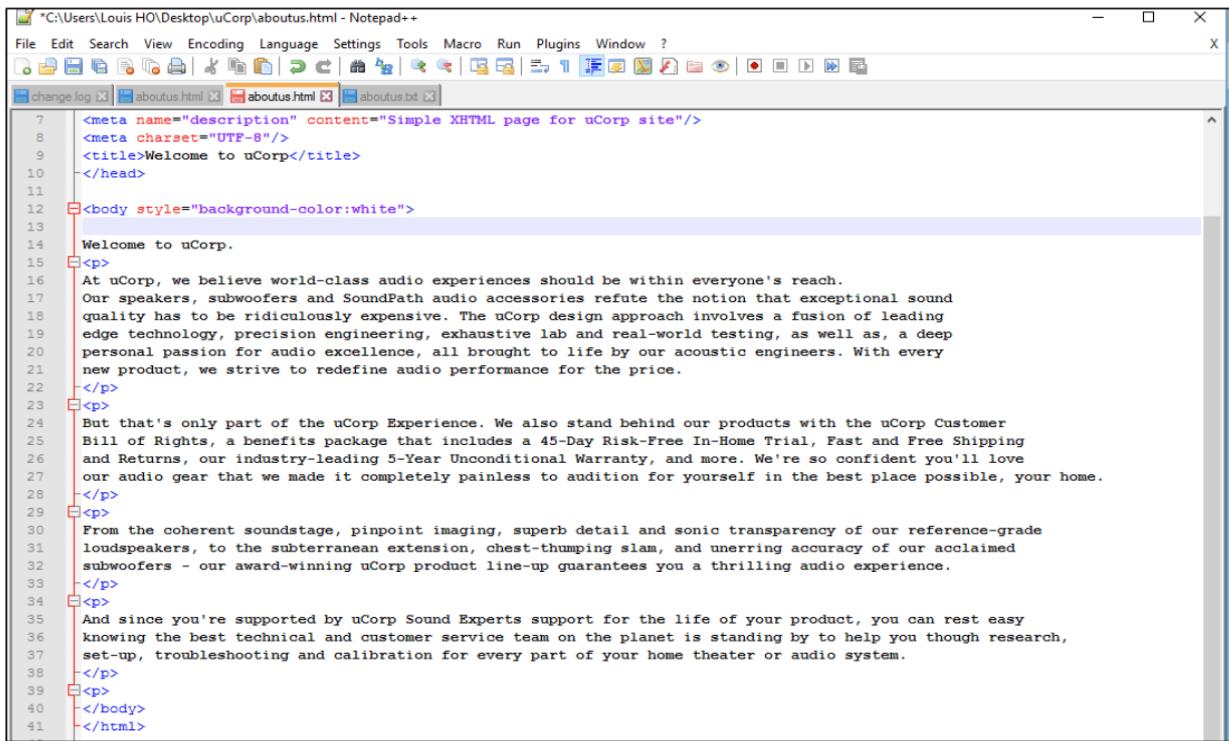
</p>

<p>

And since you're supported by uCorp Sound Experts support for the life of your product, you can rest easy knowing the best technical and customer service team on the planet is standing by to help you though research, set-up, troubleshooting and calibration for every part of your home theater or audio system.

</p>

<p>



```
7 <meta name="description" content="Simple XHTML page for uCorp site"/>
8 <meta charset="UTF-8"/>
9 <title>Welcome to uCorp</title>
10 </head>
11
12 <body style="background-color:white">
13
14 Welcome to uCorp.
15 <p>
16 At uCorp, we believe world-class audio experiences should be within everyone's reach.
17 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
18 quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading
19 edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep
20 personal passion for audio excellence, all brought to life by our acoustic engineers. With every
21 new product, we strive to redefine audio performance for the price.
22 </p>
23 <p>
24 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer
25 Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping
26 and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love
27 our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.
28 </p>
29 <p>
30 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
31 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
32 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
33 </p>
34 <p>
35 And since you're supported by uCorp Sound Experts support for the life of your product, you can rest easy
36 knowing the best technical and customer service team on the planet is standing by to help you though research,
37 set-up, troubleshooting and calibration for every part of your home theater or audio system.
38 </p>
39 <p>
40 </body>
41 </html>
```

8. Load **aboutus.html** into your browser. You will see that the text is now separated into paragraphs, as shown in Figure 2-6.

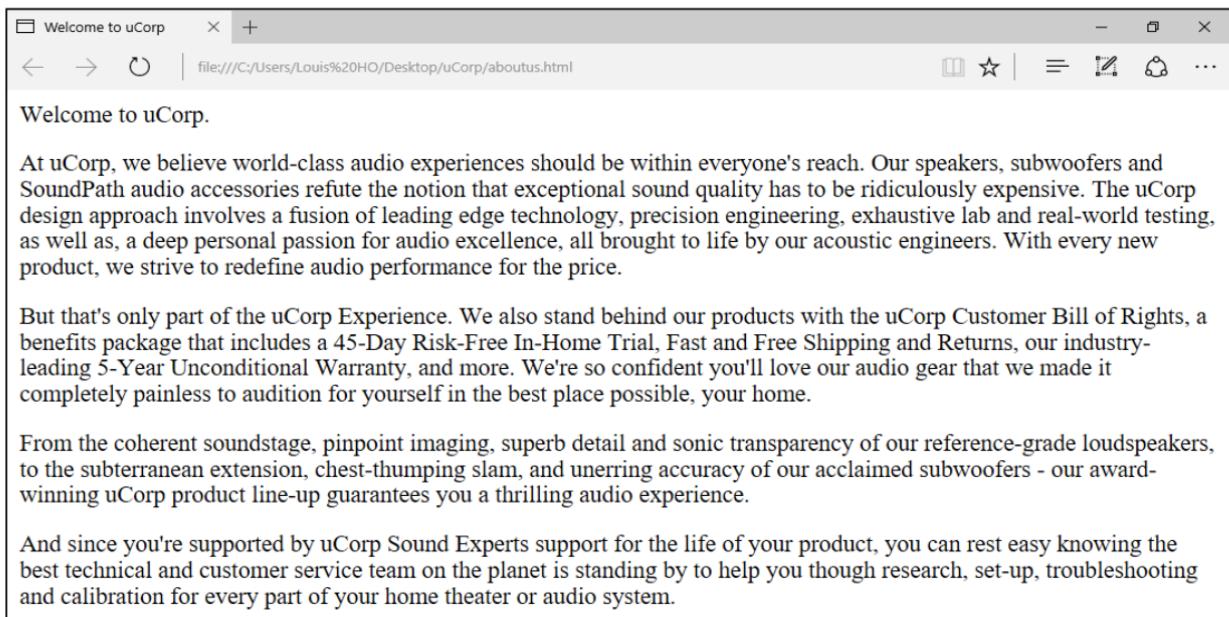


Figure 2-6: File aboutus.html after adding <p> tags

9. Notice that using the `<p>` tags has created paragraphs. Now, add some `
` tags to see the difference between a line break and a paragraph break in HTML. Open the **aboutus.html** file again and enter the following `
` tags as indicated in bold:

Welcome to uCorp.

`<p>`

At uCorp, we believe world-class audio experiences should be within everyone's reach. Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound quality has to be ridiculously expensive. `
`The uCorp design approach involves a fusion of leading edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep personal passion for audio excellence, all brought to life by our acoustic engineers. `
`With every new product, we strive to redefine audio performance for the price.

`</p>`

`<p>`

But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, `
` a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.

`</p>`

`<p>`

From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.

`</p>`

`<p>`

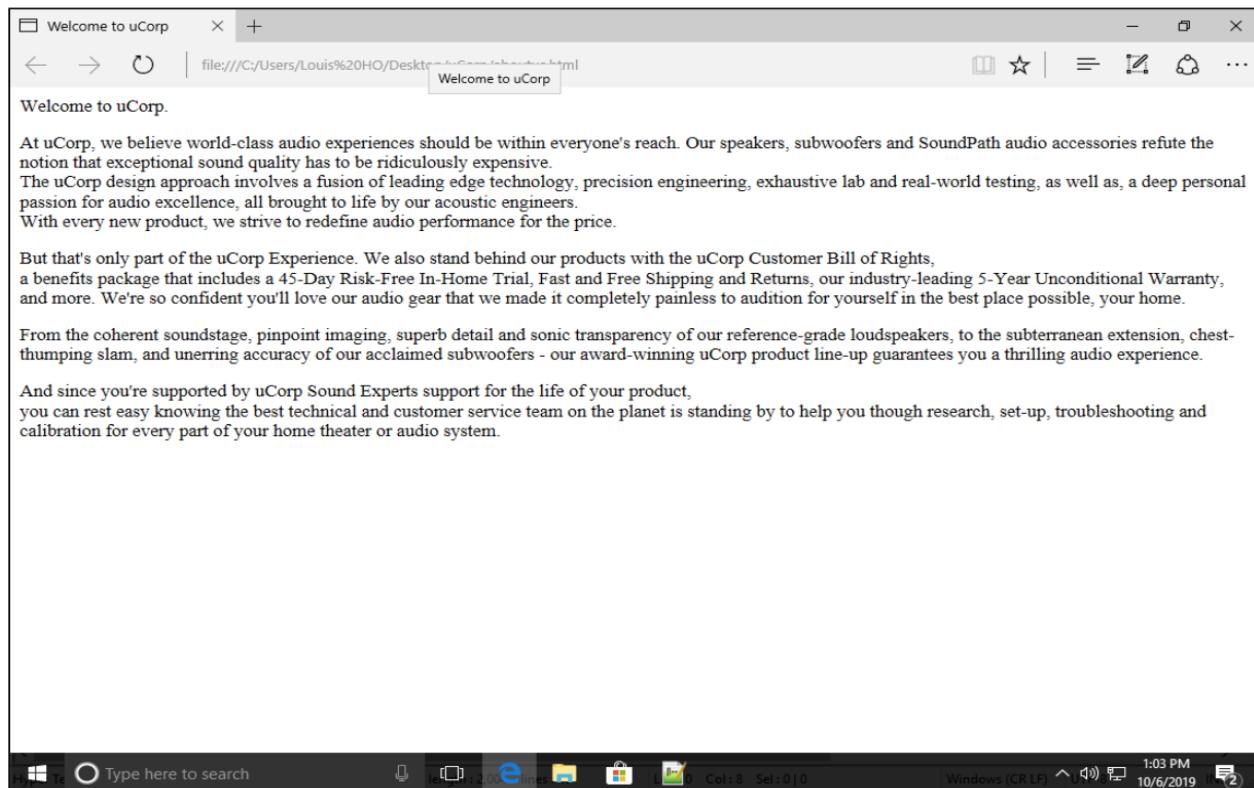
And since you're supported by uCorp Sound Experts support for the life of your product, `
`you can rest easy knowing the best technical and customer service team on the planet is standing by to help you through research, set-up, troubleshooting and calibration for every part of your home theater or audio system.

`</p>`

10. Notice that you entered the stand-alone non-empty `
` tag, rather than encompassing text between `
` and `</br>`.

11. Reload your file in the browser. You should now see the lines break across the page, as shown in Figure 2-7. Notice that although the lines break, no extra returns are added after the line breaks, as they are with the paragraph breaks.

Note: It may be easier to see the line breaks if you decrease your browser window size.



**Figure 2-7: File aboutus.html after adding
 tags to create line breaks**

Screenshot 4: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

12. Close all browser and editor windows.

In this lab, you used the <p> and
 tags.

The preceding lab demonstrates that the appearance of text in the editor will not necessarily match the appearance of text in the browser. Do not become frustrated when the text in your browser does not appear as you intended. Determine what needs to be done to achieve the desired appearance, and add the appropriate code to your file.

Step 1. Lab 2-3: Using headings in HTML5

In CIW online curriculum, open **Lesson 2 HTML5 Coding > Paragraph Formatting and Block-Level Elements.**

The screenshot shows the CIW online curriculum interface. At the top, there's a navigation bar with tabs like 'Table of Contents', 'Exam Objectives', 'Annotation', 'Videos', and 'Glossary'. Below the navigation bar is a search bar and some user settings. The main content area is titled 'Lesson 2 : HTML5 Coding'. It contains two main sections: '1 Markup Language and Site Development Essentials' and '2 HTML5 Coding'. Under '2 HTML5 Coding', there are several sub-links: 'Introduction to Using HTML', 'Elements and Markup Tags', 'Document Structure Tags', 'Website File Structure', 'Preparing Your Development Environment', and 'Paragraph Formatting and Block-Level Elements'. The last link is circled in red. A red arrow originates from this circled link and points to another instance of the same link located further down the page in a different section.

We will complete **Lab 2-3: Using headings in HTML5.**

The screenshot shows the 'Lab 2-3: Using headings in HTML5' page. The title 'Lab 2-3: Using headings in HTML5' is highlighted with a red circle. A red arrow points from this title to the first note below it. The notes provide instructions for creating headings in HTML5. The page also includes a code editor showing an example of an

tag, a note about its placement, and a browser preview showing the heading 'Welcome to uCorp'.

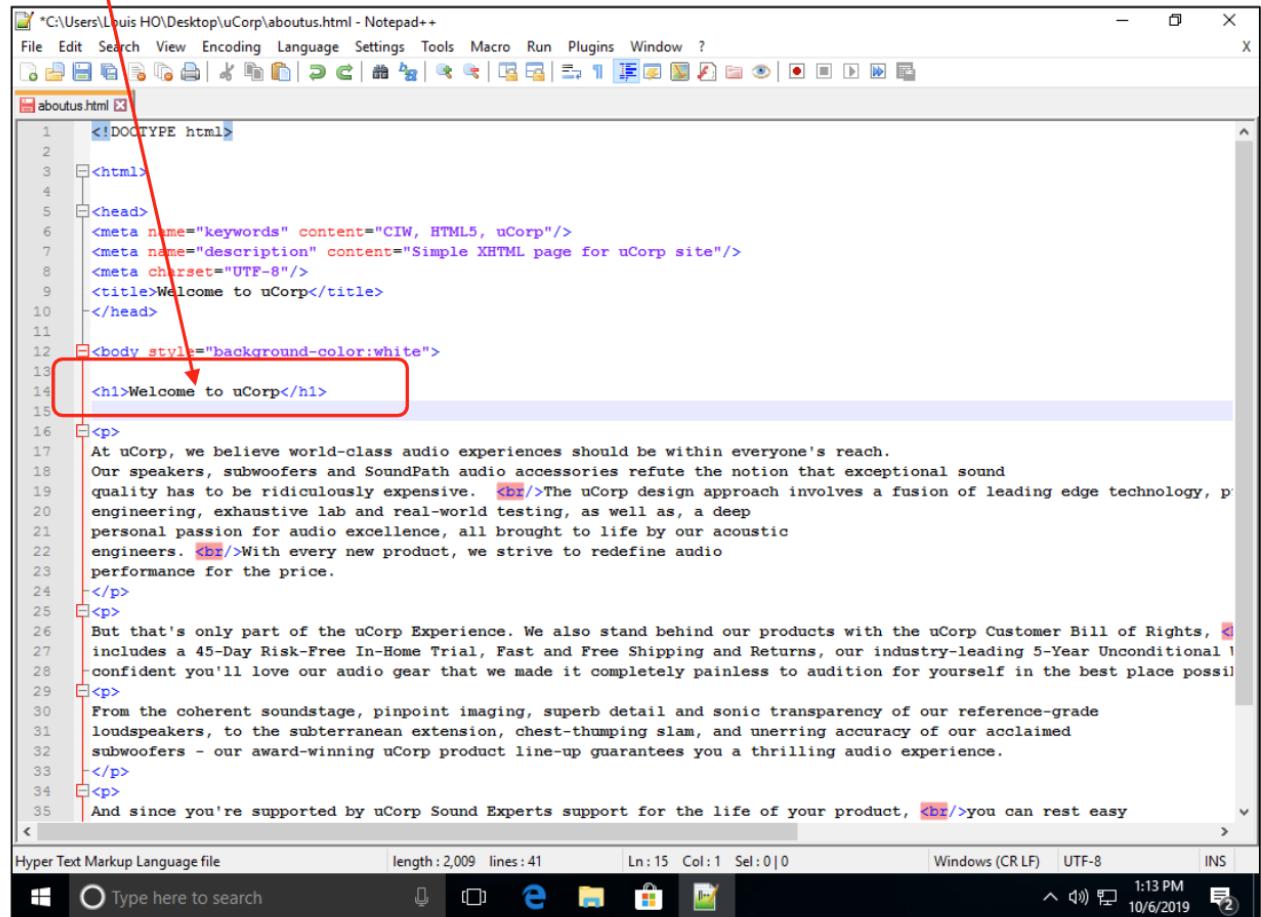
OBJECTIVE 2.1.3: HTML text formatting

In this lab, you will add heading tags to Webpage code to help organize the content.

1. **Editor:** Open **aboutus.html**.
2. Add and edit the code as shown in bold so that it has **<h1>** tags but no period at the end:

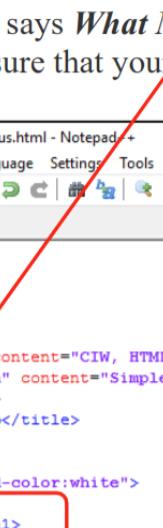
<h1>Welcome to uCorp</h1>

Note: Make sure that the <h1> line is not placed between a set of <p>...</p> tags.



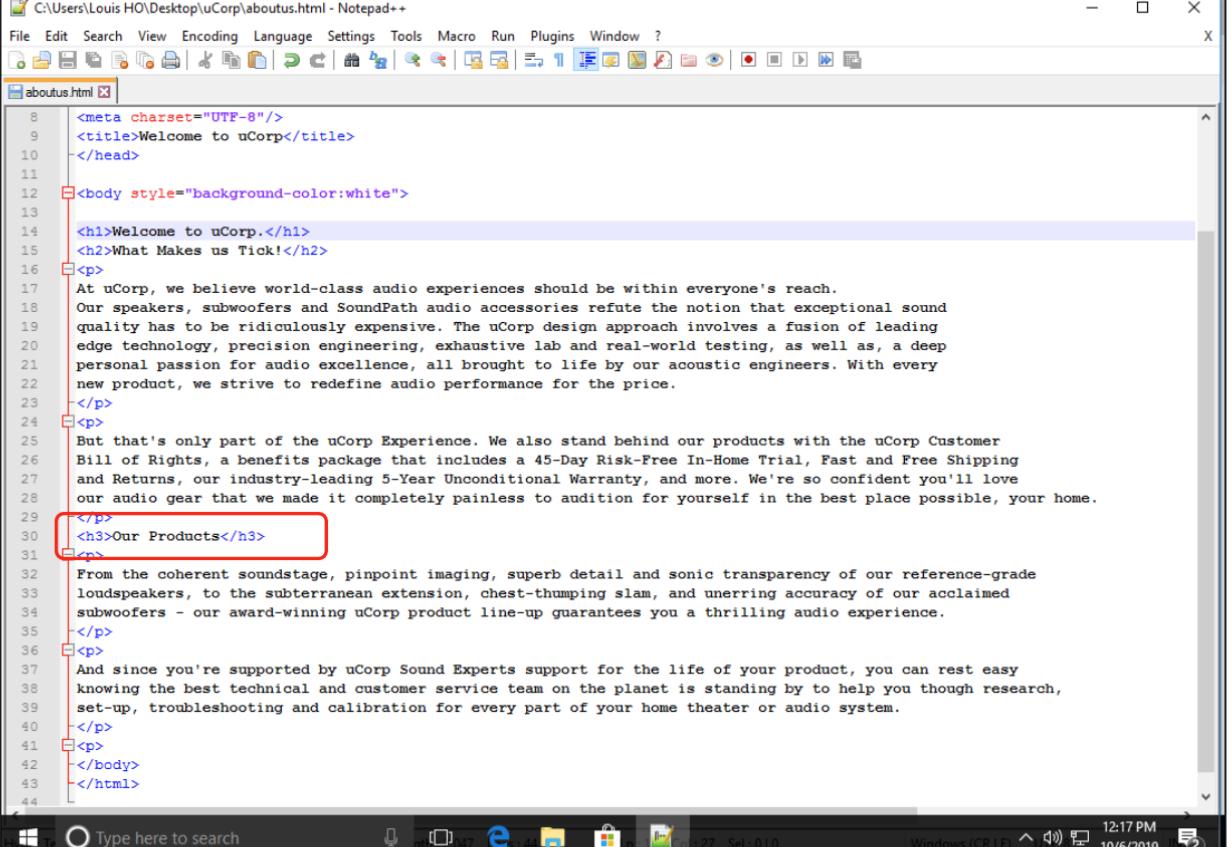
```
*C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
aboutus.html
1 <!DOCTYPE html>
2
3 <html>
4
5 <head>
6 <meta name="keywords" content="CIW, HTML5, uCorp"/>
7 <meta name="description" content="Simple XHTML page for uCorp site"/>
8 <meta charset="UTF-8"/>
9 <title>Welcome to uCorp</title>
10 </head>
11
12 <body style="background-color:white">
13   <h1>Welcome to uCorp</h1>
14
15 <p>
16   At uCorp, we believe world-class audio experiences should be within everyone's reach.
17   Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
18   quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge technology, p
19   engineering, exhaustive lab and real-world testing, as well as, a deep
20   personal passion for audio excellence, all brought to life by our acoustic
21   engineers. <br/>With every new product, we strive to redefine audio
22   performance for the price.
23 </p>
24 <p>
25   But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights,
26   includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional 1
27   confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possibl
28 </p>
29 <p>
30   From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
31   loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
32   subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
33 </p>
34 <p>
35   And since you're supported by uCorp Sound Experts support for the life of your product, <br/>you can rest easy
```

3. **Editor:** Add a line that says *What Makes us Tick!* just below the first header, and make it an h2 heading. Again, make sure that your heading is not between a set of <p>...</p> tags.



```
*C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?  
aboutus.html  
1 <!DOCTYPE html>  
2  
3 <html>  
4 <head>  
5 <meta name="keywords" content="CIW, HTML5, uCorp"/>  
6 <meta name="description" content="Simple XHTML page for uCorp site"/>  
7 <meta charset="UTF-8"/>  
8 <title>Welcome to uCorp</title>  
9 </head>  
10  
11 <body style="background-color:white">  
12 <h1>Welcome to uCorp</h1>  
13 <h2>What Makes us Tick!</h2>  
14 <p>  
15 At uCorp, we believe world-class audio experiences should be within everyone's reach.  
16 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound  
17 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge technology, p  
18 engineering, exhaustive lab and real-world testing, as well as, a deep  
19 personal passion for audio excellence, all brought to life by our acoustic  
20 engineers. <br/>With every new product, we strive to redefine audio  
21 performance for the price.  
22 </p>  
23 <p>  
24 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, <br/>  
25 includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional  
26 guarantee, and a money-back guarantee if you're not 100% satisfied. We're so confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possibl  
27 </p>  
28 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade  
29 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed  
30 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.  
31 </p>  
32 <p>  
33 And since you're supported by uCorp Sound Experts support for the life of your product, <br/>you can rest easy  
34 </p>  
35
```

4. **Editor:** Add a line that says *Our Products* just above the third paragraph, and make it an h3 heading. Again, make sure that your heading is not between a set of <p>...</p> tags.



```
C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
aboutus.html X
8 <meta charset="UTF-8"/>
9 <title>Welcome to uCorp</title>
10 </head>
11
12 <body style="background-color:white">
13
14 <h1>Welcome to uCorp.</h1>
15 <h2>What Makes us Tick!</h2>
16 <p>
17 At uCorp, we believe world-class audio experiences should be within everyone's reach.
18 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
19 quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading
20 edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep
21 personal passion for audio excellence, all brought to life by our acoustic engineers. With every
22 new product, we strive to redefine audio performance for the price.
23 </p>
24 <p>
25 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer
26 Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping
27 and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love
28 our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.
29 </p>
30 <h3>Our Products</h3>
31 <p>
32 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
33 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
34 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
35 </p>
36 <p>
37 And since you're supported by uCorp Sound Experts support for the life of your product, you can rest easy
38 knowing the best technical and customer service team on the planet is standing by to help you through research,
39 set-up, troubleshooting and calibration for every part of your home theater or audio system.
40 </p>
41 <p>
42 </body>
43 </html>
44
```

5. **Editor:** Save your changes and load the file into a browser. Your screen should resemble Figure 2-9. When you are finished, validate your code.

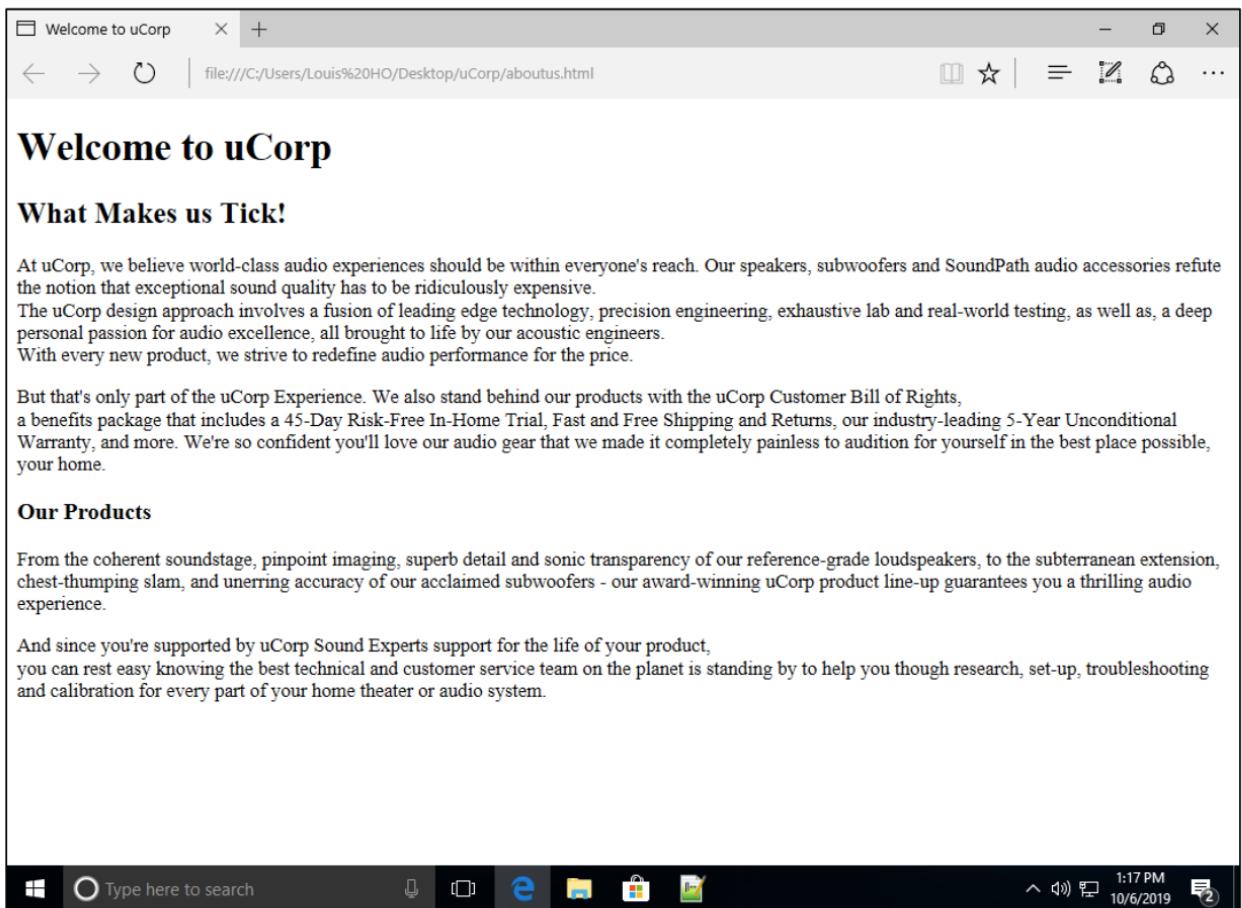


Figure 2-9: File aboutus.html after adding heading, paragraph and line break tags

Screenshot 5: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

6. Close all browser and editor windows.

In this lab, you used markup headings.

Step 1. Lab 2-4: Indenting and centering text with HTML5

In CIW online curriculum, open **Lesson 2 HTML5 Coding > Paragraph Formatting and Block-Level Elements.**

The screenshot shows the CIW online curriculum interface. At the top, there's a navigation bar with tabs for 'Lesson 2 : HTML5 Coding' and 'Chapter & Lessons : CIS'. Below the navigation is a search bar and some user settings. The main content area displays a Table of Contents for 'Lesson 2 : HTML5 Coding'. The first section, 'Markup Language and Site Development Essentials', contains several topics like 'Creating Webpages' and 'Mobile and Cloud Issues'. The second section, 'HTML5 Coding', contains topics such as 'Introduction to Using HTML', 'Elements and Markup Tags', and 'Document Structure Tags'. At the bottom of the TOC, the 'Paragraph Formatting and Block-Level Elements' link is circled in red, and a red arrow points down to the same link in the main content area, which is also highlighted with a red circle.

We will complete **Lab 2-4: Indenting and centering text with HTML5.**

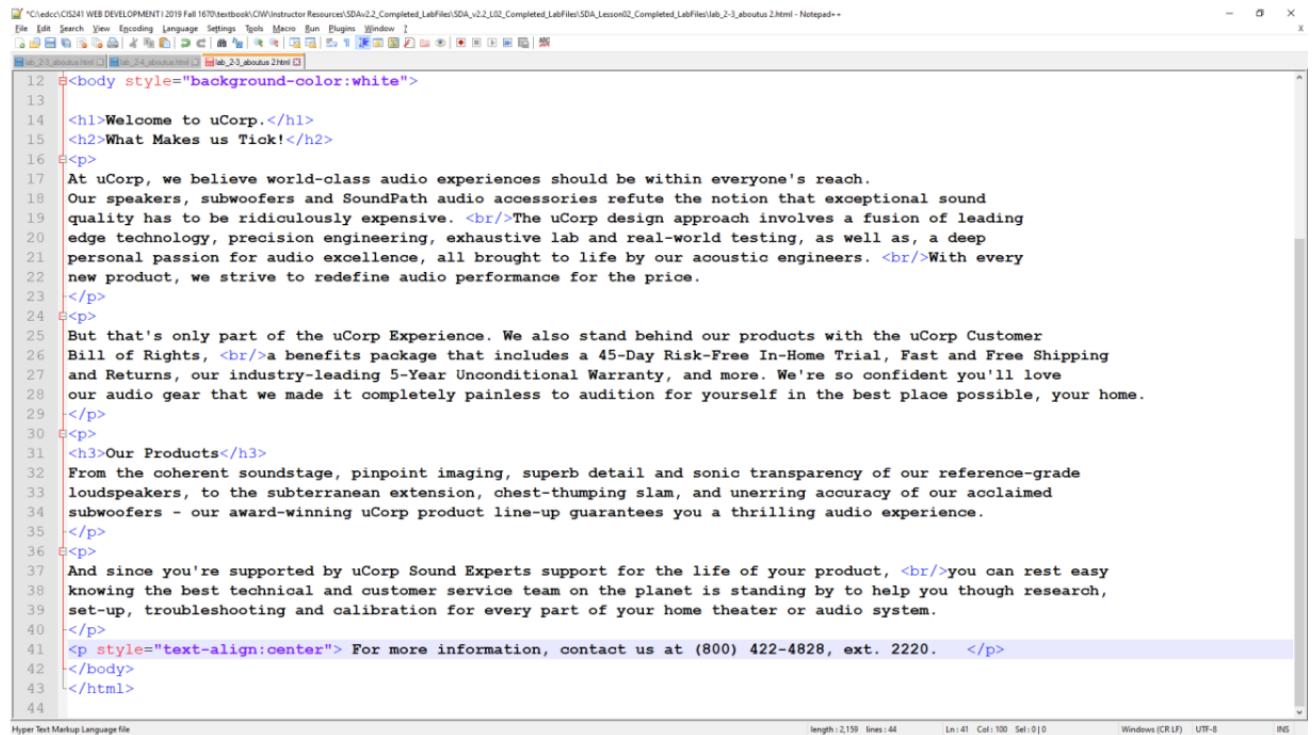
The screenshot shows the 'Lab 2-4: Indenting and centering text with HTML5' page. At the top, there's a header with a 'Not secure' warning and a URL. Below the header, a paragraph describes the lab's purpose: to center and indent text on a webpage. The title 'Lab 2-4: Indenting and centering text with HTML5' is circled in red, and a red arrow points from it to the 'OBJECTIVE 2.1.2: HTML text formatting' section. The page then provides instructions for the lab, including steps for the editor and browser, sample code snippets, and an instructor note. At the bottom, there are navigation links for 'Previous', 'Next', 'Go Back', and other course content.

OBJECTIVE 2.1.3: HTML text formatting

In this lab, you will use HTML to indent and center text in the file you created in previous labs.

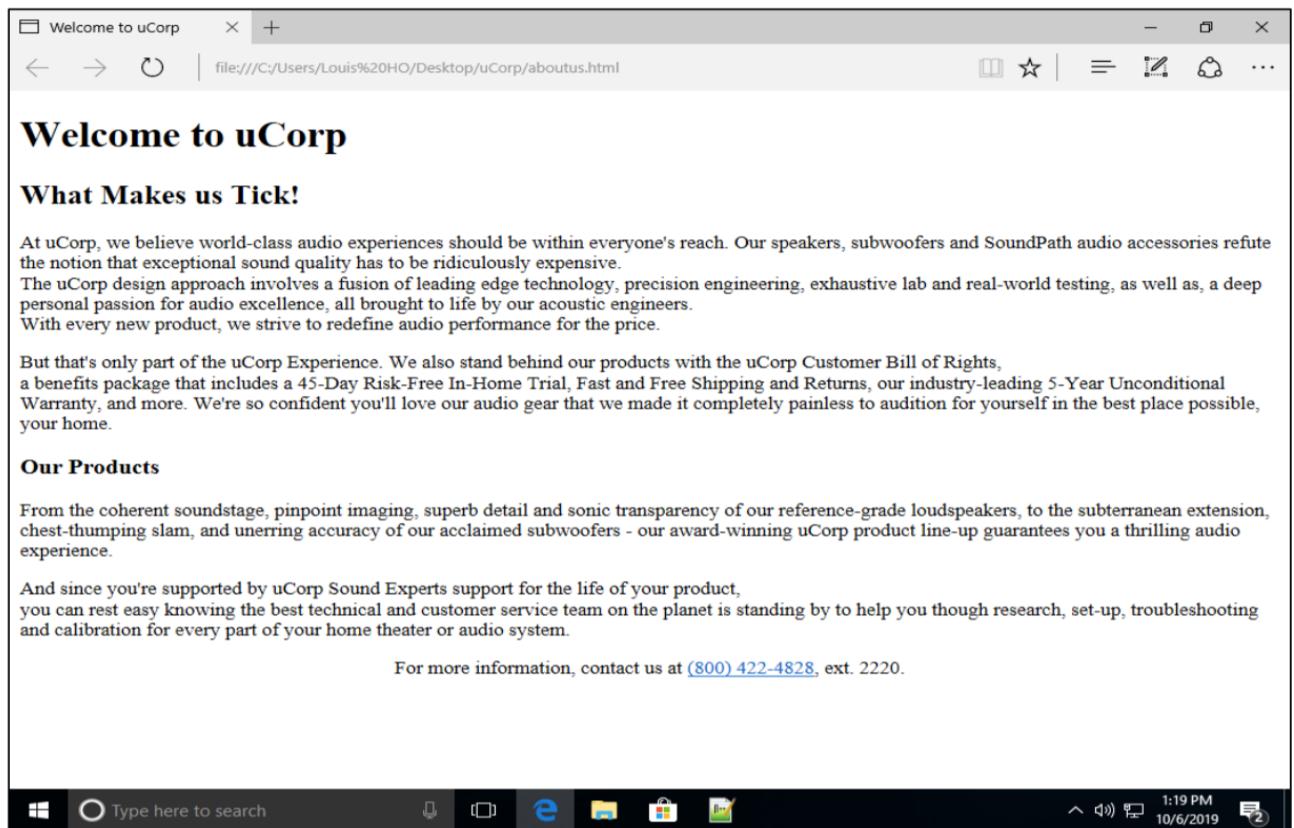
1. **Editor:** Open **aboutus.html** and scroll to the bottom of the file.
2. **Editor:** Add the following line just above the </body> tag:

<p style="text-align:center"> For more information, contact us at (800) 422-4828, ext. 2220. </p>



```
12 <body style="background-color:white">
13
14 <h1>Welcome to uCorp.</h1>
15 <h2>What Makes us Tick!</h2>
16 <p>
17 At uCorp, we believe world-class audio experiences should be within everyone's reach.
18 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
19 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading
20 edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep
21 personal passion for audio excellence, all brought to life by our acoustic engineers. <br/>With every
22 new product, we strive to redefine audio performance for the price.
23 </p>
24 <p>
25 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer
26 Bill of Rights, <br/>a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping
27 and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love
28 our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.
29 </p>
30 <p>
31 <h3>Our Products</h3>
32 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
33 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
34 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
35 </p>
36 <p>
37 And since you're supported by uCorp Sound Experts support for the life of your product, <br/>you can rest easy
38 knowing the best technical and customer service team on the planet is standing by to help you through research,
39 set-up, troubleshooting and calibration for every part of your home theater or audio system.
40 </p>
41 <p style="text-align:center"> For more information, contact us at (800) 422-4828, ext. 2220. </p>
42 </body>
43 </html>
44
```

3. **Browser:** Load the **aboutus.html** file. You will see that your new line is centered. Validate your code at <http://validator.w3.org>.



Note: Properly nest code, or else it may fail validation, render incorrectly, or both.

4. Use the **<blockquote>** tag to indent the text beneath header 2 and header 3, as follows:

```
<h1>Welcome to uCorp</h1>
<h2>What Makes us Tick!</h2>
<blockquote>
<p>
```

At uCorp, we believe world-class audio experiences should be within everyone's reach. Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound quality has to be ridiculously expensive.
The uCorp design approach involves a fusion of leading edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep personal passion for audio excellence, all brought to life by our acoustic engineers.

With every new product, we strive to redefine audio performance for the price.

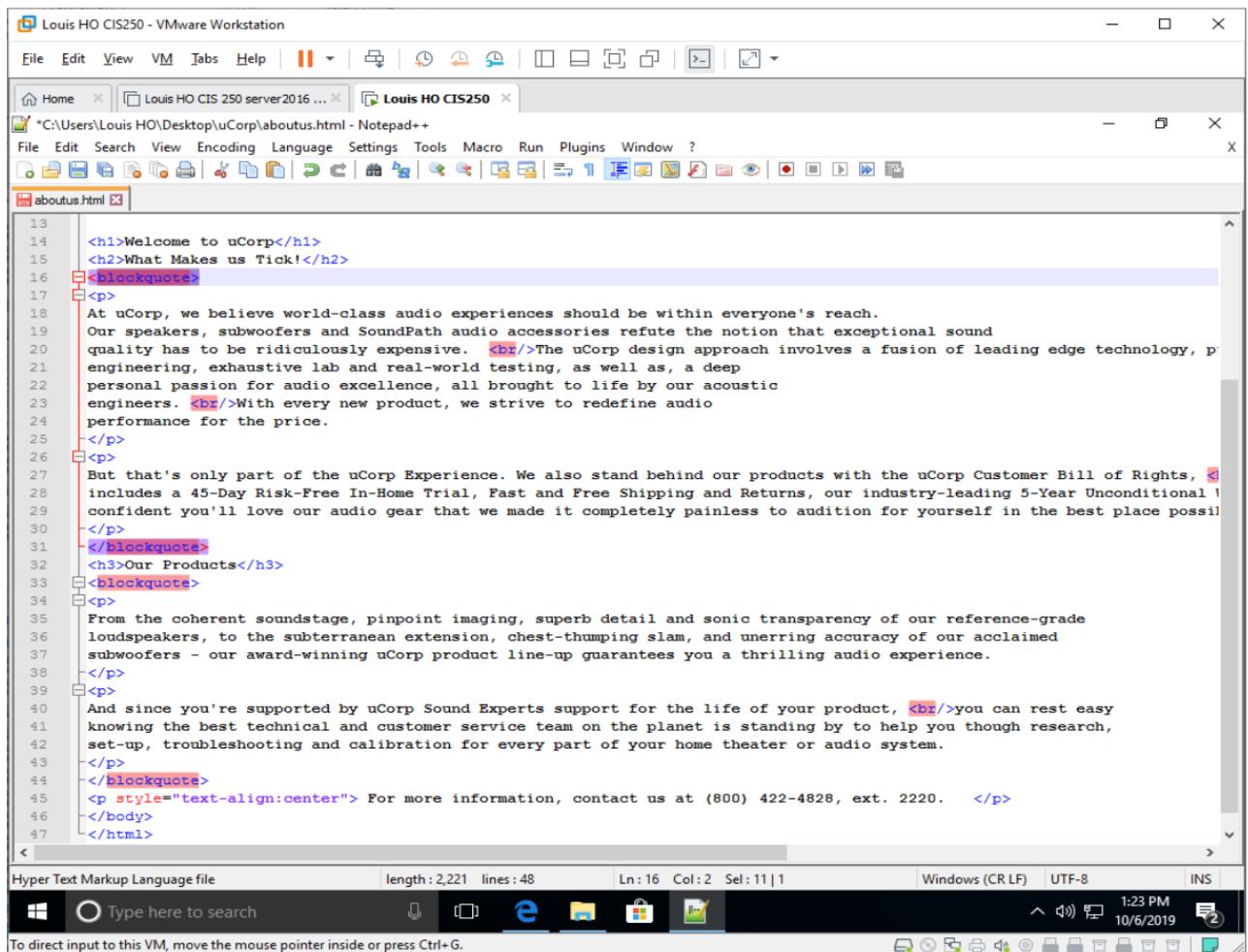
```
</p>
<p>
```

But that's only part of the uCorp Experience. We also stand behind our products with the uCorp

Customer Bill of Rights,
 a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.

</p>
</blockquote>

5. Repeat this formatting for the entire page by enclosing each text paragraph in <blockquote> tags, except the last "For more information" line. Do not format headings as blockquotes. Notice that the tags are properly nested: The <blockquote> tags are not placed inside of the <p> tags, nor are the <h1> tags inside of a <blockquote> tag.



```
13<h1>Welcome to uCorp</h1>
14<h2>What Makes us Tick!</h2>
15<blockquote>
16<p>
17At uCorp, we believe world-class audio experiences should be within everyone's reach.
18Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
19quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge technology, p
20engineering, exhaustive lab and real-world testing, as well as, a deep
21personal passion for audio excellence, all brought to life by our acoustic
22engineers. <br/>With every new product, we strive to redefine audio
23performance for the price.
24</p>
25</p>
26<blockquote>
27But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, <br/>
28includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional
29confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possi
30</p>
31</blockquote>
32<h3>Our Products</h3>
33<blockquote>
34<p>
35From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
36loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
37subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
38</p>
39<blockquote>
40And since you're supported by uCorp Sound Experts support for the life of your product, <br/>you can rest easy
41knowing the best technical and customer service team on the planet is standing by to help you though research,
42set-up, troubleshooting and calibration for every part of your home theater or audio system.
43</p>
44</blockquote>
45<p style="text-align:center"> For more information, contact us at (800) 422-4828, ext. 2220. </p>
46</body>
47</html>
```

When you are finished, resize your browser window so your page resembles Figure 2-10.

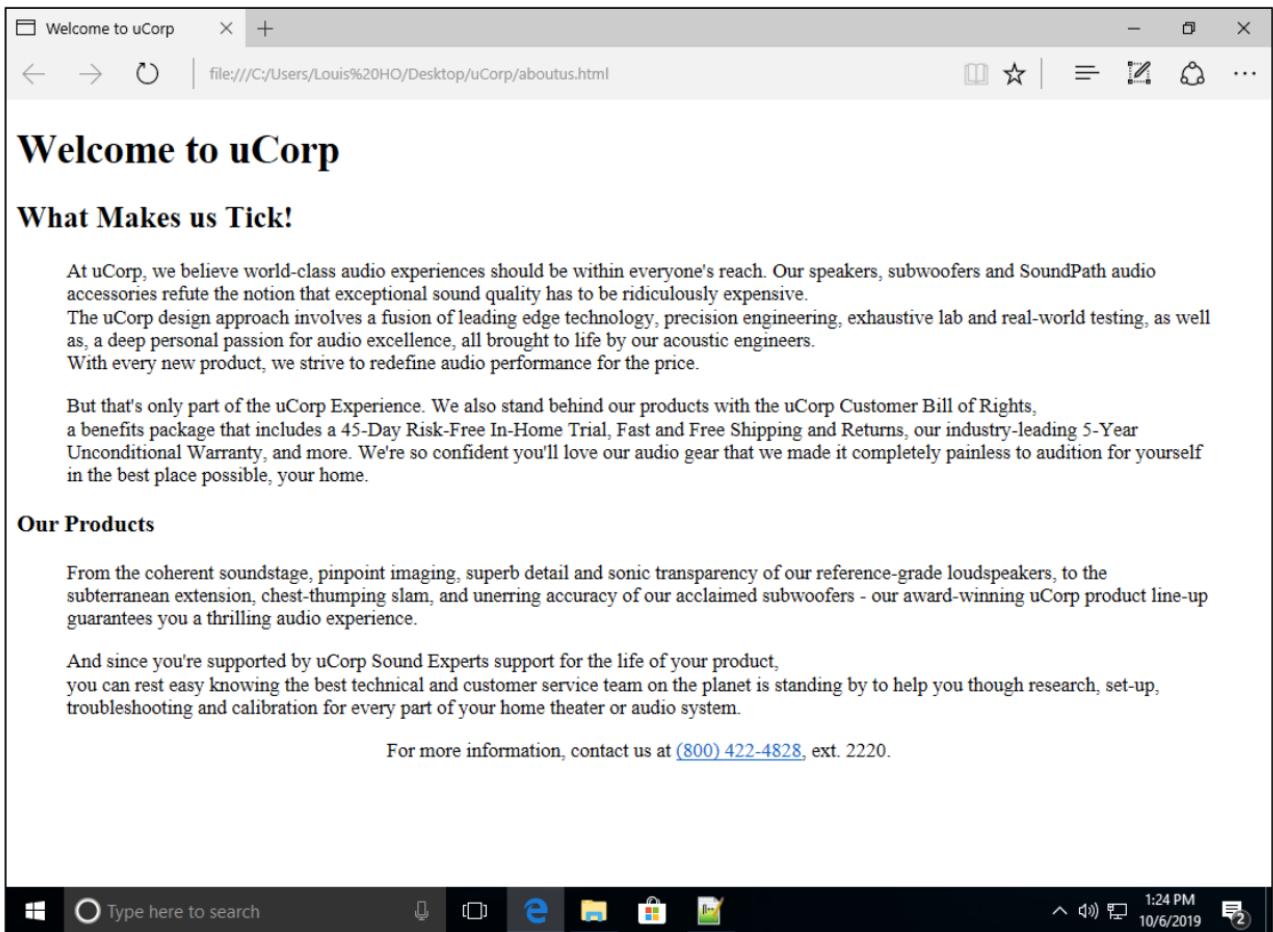


Figure 2-10: File aboutus.html after indenting with <blockquote> and centering text

Screenshot 6: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

6. Close all browser and editor windows.

In this lab, you used HTML to center and indent text in a Webpage.

Step 1. Lab 2-5: Using text-level phrasing elements in HTML5

In CIW online curriculum, open **Lesson 2 HTML5 Coding > Text-Level Elements.**

The screenshot shows a web browser window with the URL https://ciw.ucecertify.com/?func=ebook&chapter_no=0. The page title is "Lesson 2 : HTML5 Coding". The left sidebar has a tree view of topics under "HTML5 Coding". A red circle highlights the "Text-Level Elements" node under section 2. The right sidebar shows "Cards" and "Quizzes" icons.

We will complete **Lab 2-5: Using text-level phrasing elements in HTML5.**

The screenshot shows a web browser window with the URL https://www.ucecertify.com/?func=ebook&chapter_no=2#04Cyx. The title bar says "Lesson 2 - HTML5 Coding - uCertify". The main content area starts with: "In the following lab, you will use text-level phrase elements to format text on a Webpage. Suppose your project manager has asked you to add emphasis to certain phrases with formatting such as italic or bold type. You could perform these steps to add the proper elements to your Webpage code." A red circle highlights the heading "Lab 2-5: Using text-level phrasing elements in HTML5". Below it, the objective is listed as "OBJECTIVE 2.1.3. HTML text formatting". The page continues with instructions for the lab, including steps for editing aboutus.html and saving the file. At the bottom, there is a preview of a browser window showing the "Welcome to uCorp" page.

Lab 2-5: Using text-level phrasing elements in HTML5

OBJECTIVE 2.1.3: HTML text formatting

In this lab, you will add text-level phrasing elements to the file you worked with in previous labs.

1. **Editor:** Open **aboutus.html**.
 2. **Editor:** In the first full paragraph, find the phrase "*world class audio experiences*" and add the tag as shown:
world-class audio-experiences

C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

aboutus.html

```
12 <body style="background-color:white">
13
14 <h1>Welcome to uCorp.</h1>
15 <h2>What Makes us Tick!</h2>
16 <blockquote>
17 <p>
18 At uCorp, we believe world-class audio experiences should be within everyone's reach.
19 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
20 quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading
21 edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep
22 personal passion for audio excellence, all brought to life by our acoustic engineers. With every
23 new product, we strive to redefine audio performance for the price.
24 </p>
25 <p>
26 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Cust.
27 Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Sh.
28 and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll
29 our audio gear that we made it completely painless to audition for yourself in the best place possi.
30 </p>
31 </blockquote>
32 <h3>Our Products</h3>
33 <blockquote>
34 <p>
35 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our referen.
36 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our accol.
37 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
38 </p>
39 <p>
40 And since you're supported by uCorp Sound Experts support for the life of your product, you can res.
41 knowing the best technical and customer service team on the planet is standing by to help you thoug.
42 set-up, troubleshooting and calibration for every part of your home theater or audio system.
43 </p>
44 </blockquote>
```

3. **Editor:** Save the file.
4. Review your work in a browser, and then validate it.

The screenshot shows a Microsoft Edge browser window with the title bar "Welcome to uCorp". The address bar displays "file:///C:/Users/Louis%20HO/Desktop/uCorp/aboutus.html". The main content area contains the following text:

Welcome to uCorp

What Makes us Tick!

At uCorp, we believe *world-class audio-experiences* should be within everyone's reach. Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound quality has to be ridiculously expensive. The uCorp design approach involves a fusion of leading edge technology, precision engineering, exhaustive lab and real-world testing, as well as, a deep personal passion for audio excellence, all brought to life by our acoustic engineers. With every new product, we strive to redefine audio performance for the price.

But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, a benefits package that includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional Warranty, and more. We're so confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possible, your home.

Our Products

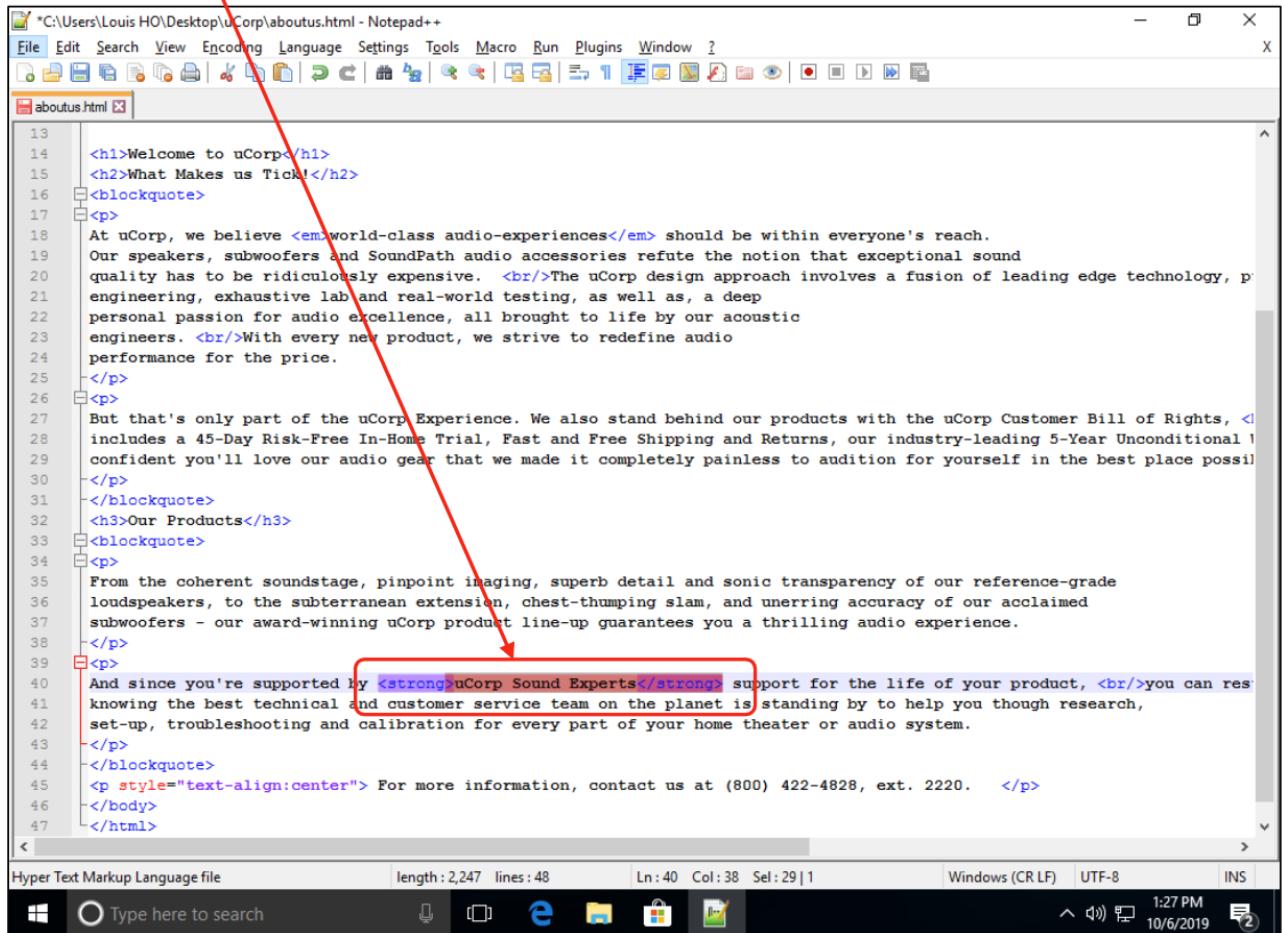
From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.

And since you're supported by uCorp Sound Experts support for the life of your product, you can rest easy knowing the best technical and customer service team on the planet is standing by to help you through research, set-up, troubleshooting and calibration for every part of your home theater or audio system.

For more information, contact us at [\(800\) 422-4828](tel:(800)422-4828), ext. 2220.

5. **Editor:** Find the phrase "uCorp Sound Experts," and add the tags as shown:

<**strong**>uCorp Sound Experts</**strong**>



The screenshot shows a Notepad++ window with the file "aboutus.html" open. The text contains several paragraphs and headings. A red arrow points from the question text above to the word "Sound" in the sentence "And since you're supported by **strong>uCorp Sound Experts support for the life of your product,
you can res". This sentence is enclosed in a red rectangular box. The Notepad++ status bar at the bottom shows the file type as "Hyper Text Markup Language file", length as 2,247, and encoding as UTF-8.**

```
13 <h1>Welcome to uCorp</h1>
14 <h2>What Makes us Tick!</h2>
15 <blockquote>
16 <p>
17 At uCorp, we believe <em>world-class audio-experiences</em> should be within everyone's reach.
18 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
19 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge technology, p
20 engineering, exhaustive lab and real-world testing, as well as, a deep
21 personal passion for audio excellence, all brought to life by our acoustic
22 engineers. <br/>With every new product, we strive to redefine audio
23 performance for the price.
24 </p>
25 <p>
26 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill of Rights, <i>
27 includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year Unconditional 1
28 confident you'll love our audio gear that we made it completely painless to audition for yourself in the best place possibl
29 </i>
30 </p>
31 </blockquote>
32 <h3>Our Products</h3>
33 <blockquote>
34 <p>
35 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
36 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
37 subwoofers - our award-winning uCorp product line-up guarantees you a thrilling audio experience.
38 </p>
39 <p>
40 And since you're supported by strong>uCorp Sound Experts</strong> support for the life of your product, <br>you can res
41 knowing the best technical and customer service team on the planet is standing by to help you though research,
42 set-up, troubleshooting and calibration for every part of your home theater or audio system.
43 </p>
44 </blockquote>
45 <p style="text-align:center"> For more information, contact us at (800) 422-4828, ext. 2220. </p>
46 </body>
47 </html>
```

6. Save your code and load it into a browser. Your page should resemble Figure 2-11.

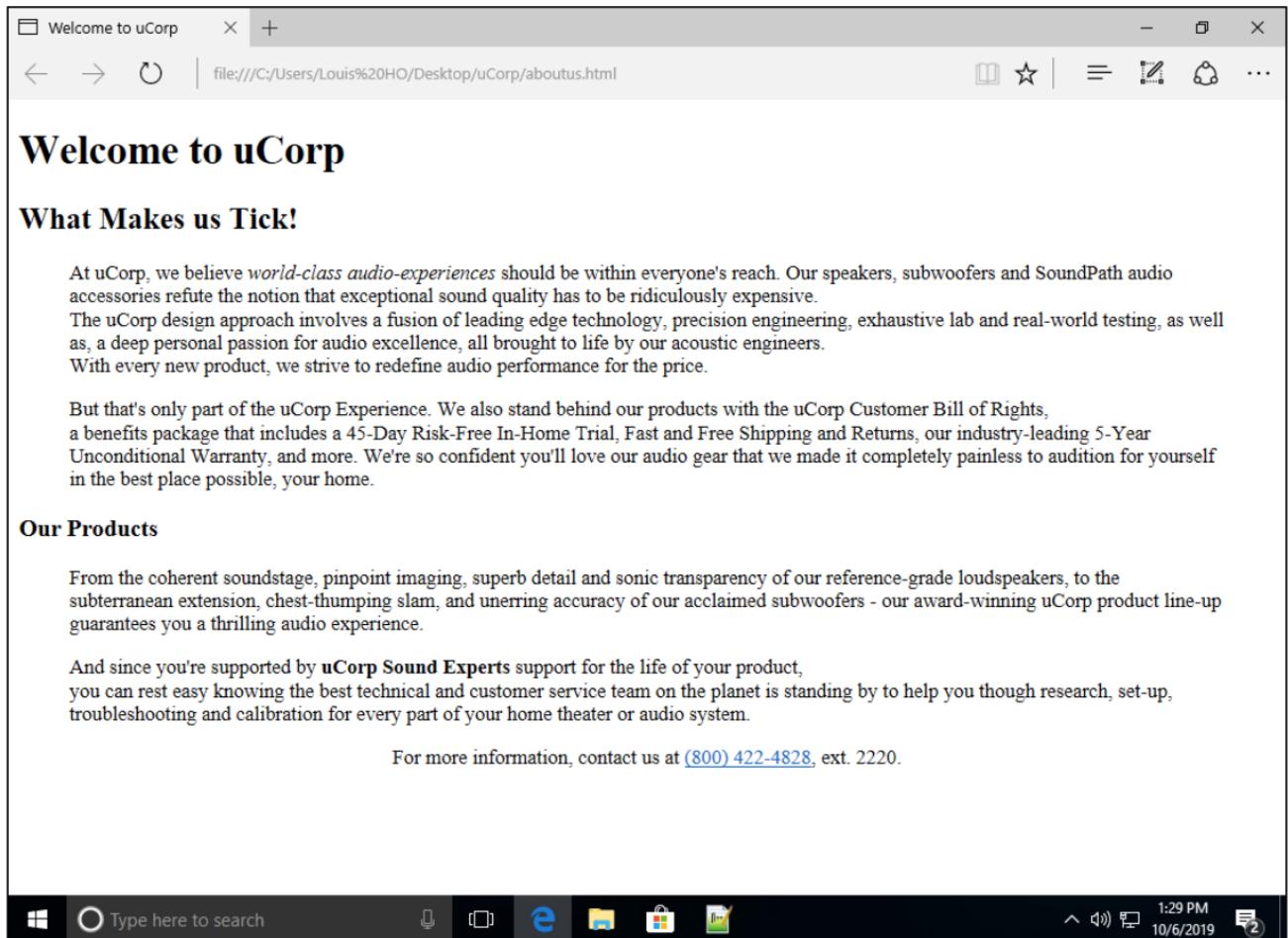


Figure 2-11: File syb.html after adding text-level phrase elements

Screenshot 7: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

7. **When time permits:** Experiment with using the `<code>`, `<kbd>` and `<samp>` tags. Be sure to delete these tags when you are finished experimenting.
8. Close all browser and editor windows.
In this lab, you added text-level phrasing elements to a Webpage.

Step 1. Lab 2-6: Creating lists with HTML5

In CIW online curriculum, open **Lesson 2 HTML5 Coding > Lists**.

The screenshot shows the CIW online curriculum interface. At the top, there's a navigation bar with tabs like 'Lesson 2: HTML5 Coding', 'Chapter & Lessons : CIS', and 'uCorp'. Below the navigation bar is a search bar and a 'Find on page' dropdown. The main content area has a sidebar with a tree view of the lesson structure:

- CIS241 2019 Fall Quarter [Based on CIW: Site Development Associate]
 - Website Development Principles
 - Hosting and Web Service Providers
 - The uCorp Website
 - Lesson Summary
 - Optional Labs
- 2 HTML5 Coding**
 - Introduction to Using HTML
 - Elements and Markup Tags
 - Document Structure Tags
 - Website File Structure
 - Preparing Your Development Environment
 - Paragraph Formatting and Block-Level Elements
 - Lists** (This item is circled in red)
 - Good Coding Practice
 - Optional Lab
 - Lesson Summary
- 3 Cascading Style Sheets (CSS3) and Graphical Elements**
 - Cascading Style Sheets (CSS3)
 - Generating Content in HTML

On the right side, there are 'Cards' and 'Quizzes' buttons. A red arrow points from the 'Lists' link in the sidebar to the 'Lab 2-6: Creating lists with HTML5' page.

We will complete **Lab 2-6: Creating lists with HTML5**.

The screenshot shows the 'Lab 2-6: Creating lists with HTML5' page. At the top, it says 'Our products include: Wireless Speakers, Subwoofers and Bluetooth Tower Speakers.' Below this, a message from 'The W3C Markup Validation Server' states: 'You can see that a list format would work well for this multi-point information. You can experiment with both an ordered and an unordered list. Which is most appropriate for the information?' A red arrow points from the page title to this message. The page itself contains the lab instructions and code examples. At the bottom, there's a browser preview showing the page 'Welcome to uCorp' with the list of products.

OBJECTIVE 2.1.3: HTML text formatting

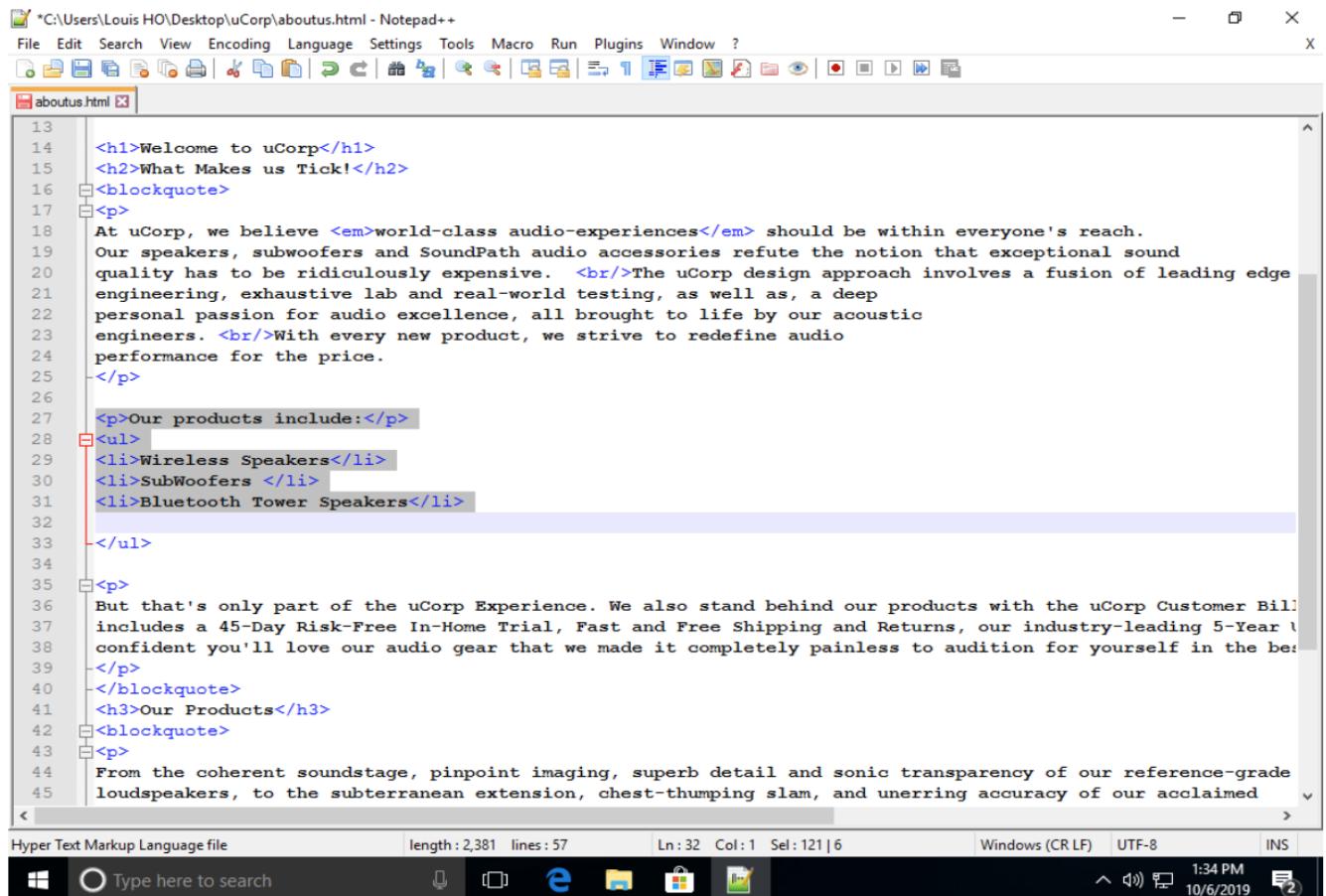
In this lab, you will create a bulleted list and a numbered list on a Webpage.

1. **Editor:** Open **aboutus.html**.

2. Create empty space by adding a return immediately beneath the `</p>` tag located after the text that reads "redefine audio performance for the price.."
3. Add the text shown in the empty space you created and format it as an unordered (bulleted) list. Make sure that the list (beginning with the `` tag) is not placed within a set of `<p>` tags:

```
<p>Our products include:</p>
<ul>
<li>Wireless Speakers</li>
<li>SubWoofers </li>
<li>Bluetooth Tower Speakers</li>

</ul>
```



```
* C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
aboutus.html X
13
14 <h1>Welcome to uCorp</h1>
15 <h2>What Makes us Tick!</h2>
16 <blockquote>
17 <p>
18 At uCorp, we believe <em>world-class audio-experiences</em> should be within everyone's reach.
19 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
20 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge
21 engineering, exhaustive lab and real-world testing, as well as, a deep
22 personal passion for audio excellence, all brought to life by our acoustic
23 engineers. <br/>With every new product, we strive to redefine audio
24 performance for the price.
25 </p>
26
27 <p>Our products include:</p>
28 <ul>
29 <li>Wireless Speakers</li>
30 <li>SubWoofers </li>
31 <li>Bluetooth Tower Speakers</li>
32 </ul>
33
34 <p>
35 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill
36 includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year
37 confident you'll love our audio gear that we made it completely painless to audition for yourself in the bes
38
39 </p>
40 </blockquote>
41 <h3>Our Products</h3>
42 <blockquote>
43 <p>
44 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
45 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
```

4. **Editor:** Save your changes and view the page in a browser. Your page should resemble Figure 2-14.

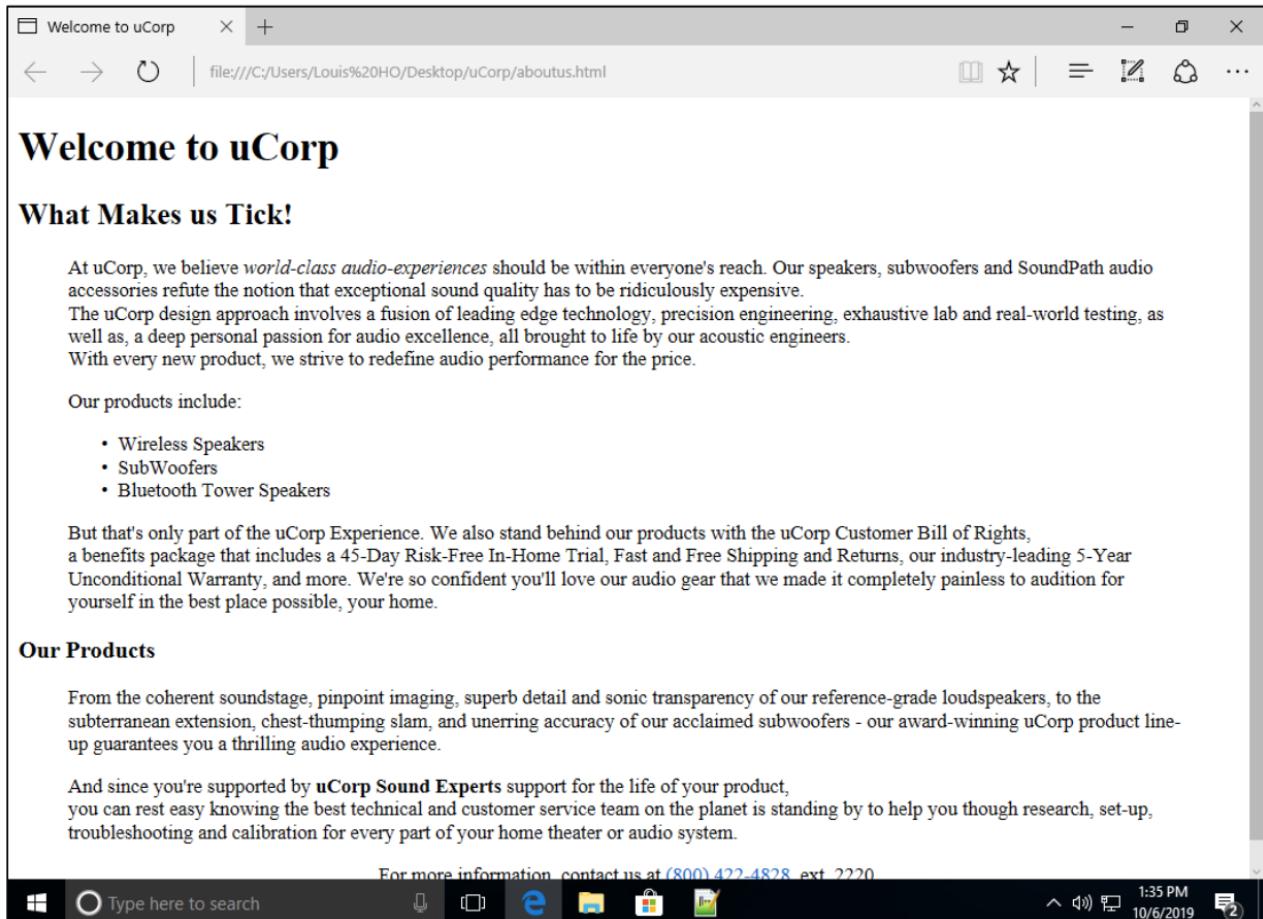
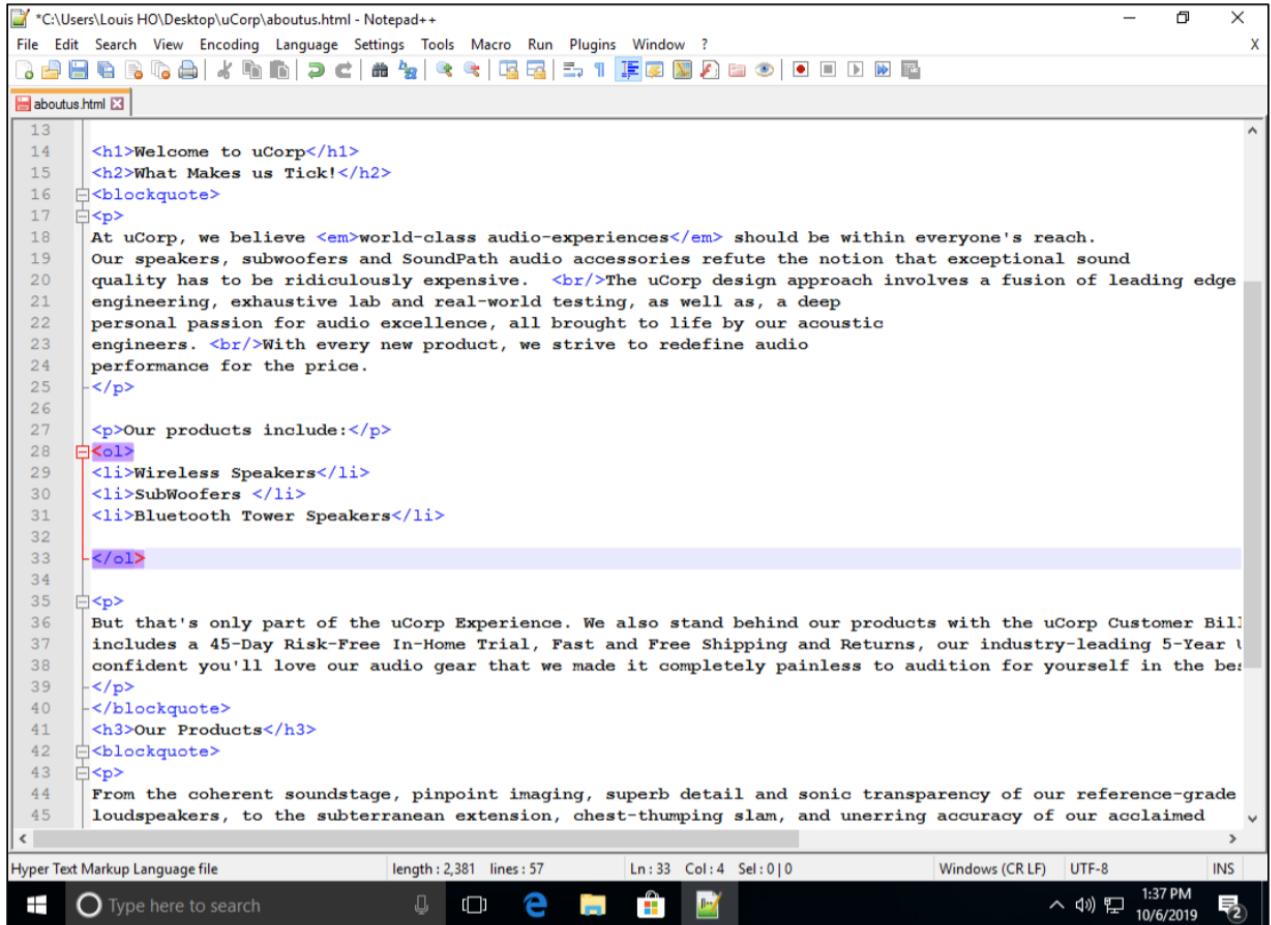


Figure 2-14: File aboutus.html after adding bulleted list

Screenshot 8: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

5. Validate your code at <http://validator.w3.org>.

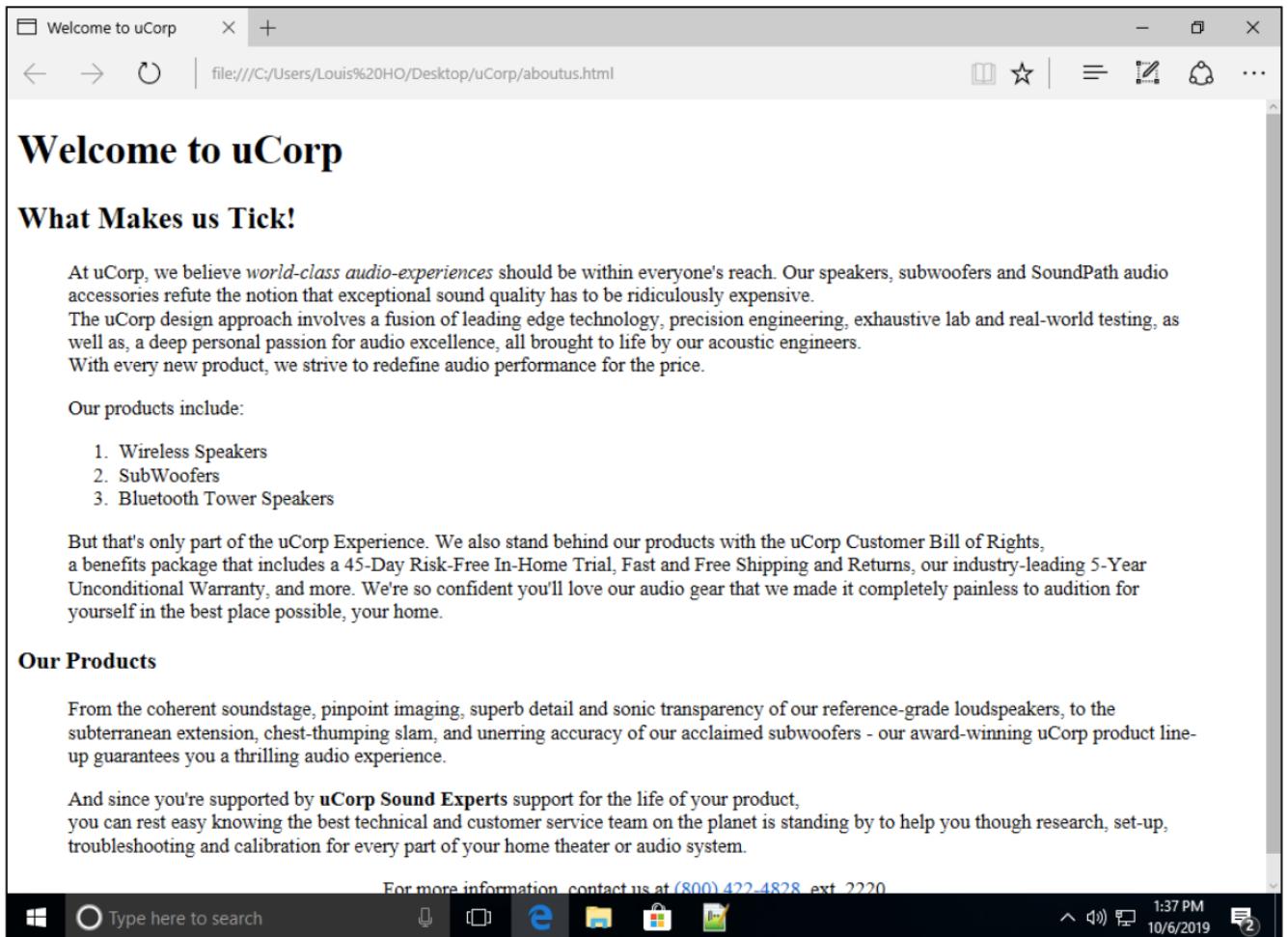
6. Change your unordered list to an ordered list, then validate your code again.



```
*C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
aboutus.html

13
14 <h1>Welcome to uCorp</h1>
15 <h2>What Makes us Tick!</h2>
16 <blockquote>
17 <p>
18 At uCorp, we believe <em>world-class audio-experiences</em> should be within everyone's reach.
19 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound
20 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge
21 engineering, exhaustive lab and real-world testing, as well as, a deep
22 personal passion for audio excellence, all brought to life by our acoustic
23 engineers. <br/>With every new product, we strive to redefine audio
24 performance for the price.
25 </p>
26
27 <p>Our products include:</p>
28 <ol>
29 <li>Wireless Speakers</li>
30 <li>SubWoofers </li>
31 <li>Bluetooth Tower Speakers</li>
32
33 </ol>
34
35 <p>
36 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill
37 includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year L
38 confident you'll love our audio gear that we made it completely painless to audition for yourself in the be
39 </p>
40 </blockquote>
41 <h3>Our Products</h3>
42 <blockquote>
43 <p>
44 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade
45 loudspeakers, to the subterranean extension, chest-thumping slam, and unerring accuracy of our acclaimed
```

View the page with the ordered list in the browser. Do you think a numbered list format is more appropriate for this information than a bulleted list?



Screenshot 9: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

7. Change your code back to an unordered list, then close all editors and browsers. In this lab, you created ordered and unordered lists.

Step 1. Lab 2-7: Documenting and commenting HTML5 code

In CIW online curriculum, open **Lesson 2 HTML5 Coding > Good Coding Practice**.

The screenshot shows the CIW online curriculum interface. At the top, there's a navigation bar with tabs like 'Lesson 2 : HTML5 Coding', 'Lesson 2 : HTML5 Coding', 'Chapter & Lessons : CIS', and 'uCorp'. Below the navigation bar is a search bar with 'Find on page' and 'based' dropdowns, and a 'No results' message. To the right of the search bar are 'Options' and a magnifying glass icon. The main content area has a sidebar on the left with a tree view of the curriculum structure. The 'HTML5 Coding' section is expanded, showing topics like 'Introduction to Using HTML', 'Elements and Markup Tags', 'Document Structure Tags', 'Website File Structure', 'Preparing Your Development Environment', 'Paragraph Formatting and Block-Level Elements', 'Text-Level Elements', 'Lists', and 'Good Coding Practice'. The 'Good Coding Practice' link is circled in red. The sidebar also includes 'Optional Lab' and 'Lesson Summary' sections. At the bottom of the sidebar, there are 'Cards' and 'Quizzes' icons. The main content area shows a continuation of the curriculum structure for 'Cascading Style Sheets (CSS3) and Graphical Elements'.

We will complete **Lab 2-7: Documenting and commenting HTML5 code**.

The screenshot shows the 'Lab 2-7: Documenting and commenting HTML5 code' page. The title is circled in red. The page contains instructions: 'In the following lab, you will insert hidden comments into your HTML code. Suppose your project has incurred temporary removal of the bulleted list. You can use hidden comments to add notes to the file that document this change, and also make it easy to reverse it if necessary.' Below the title, there's a section titled 'About Us' with a sub-section 'Lab 2-7: Documenting and commenting HTML5 code'. It lists steps: 1. Open the 'aboutus.html' file. 2. Comment out the bulleted list and its introduction using '<!--' and '-->' tags. A code editor window shows the following HTML code:

```
<!--  
<p>  
    Our products include:</p>  
<ul>  
    <li>Wireless Speakers</li>  
    <li>SubWoofers</li>  
    <li>Bluetooth Tower Speakers</li>  
</ul>  
-->
```

Step 3: Save your changes and view your edited file in a browser. Step 4: Validate your code to ensure it's valid. Step 5: Document the reason for removing the list. A note at the bottom says: '<!-- Bulleted list removed at the request of supervisor, Jane Doe.-->'. Step 6: Document validation at the bottom of the file. At the bottom of the page, there are 'Cards' and 'Quiz' buttons, and navigation links for 'Previous', 'Next', 'Go Back', and a gear icon.</p>

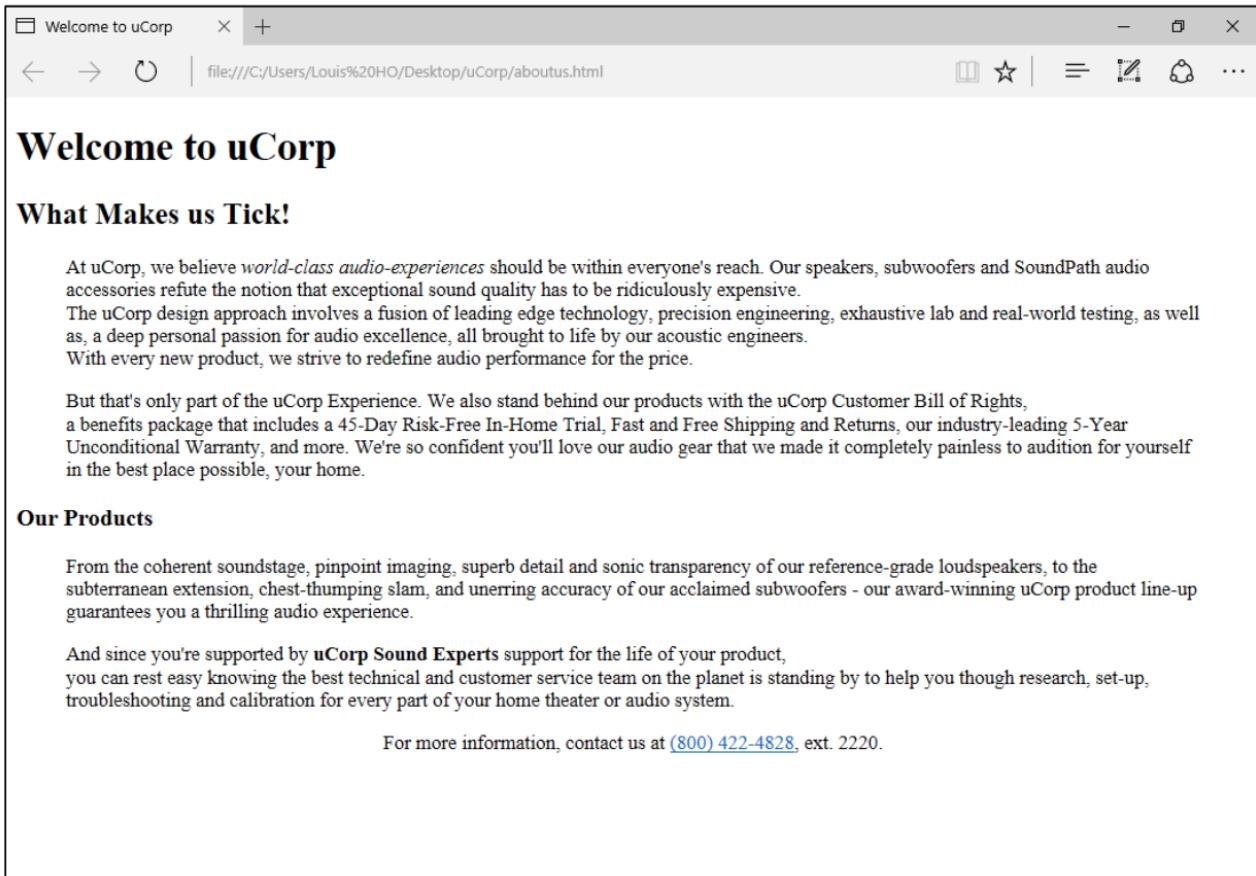
In this lab, you will document your HTML code and "comment out" certain portions.

1. **Editor:** Open the **aboutus.html** file.
2. **Editor:** Comment out your bulleted list and the introduction to it using the `<!--` and `-->` tags.

```
<!--  
<p>Our products include:</p>  
<ul>  
<li>Wireless Speakers</li>  
<li>SubWoofers</li>  
<li>Bluetooth Tower Speakers</li>  
</ul>  
-->
```

```
*C:\Users\Louis HO\Desktop\uCorp\aboutus.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?  
aboutus.html  
13 <h1>Welcome to uCorp</h1>  
14 <h2>What Makes us Tick!</h2>  
15 <blockquote>  
16 <p>  
17 At uCorp, we believe <em>world-class audio-experiences</em> should be within everyone's reach.  
18 Our speakers, subwoofers and SoundPath audio accessories refute the notion that exceptional sound  
19 quality has to be ridiculously expensive. <br/>The uCorp design approach involves a fusion of leading edge  
20 engineering, exhaustive lab and real-world testing, as well as, a deep  
21 personal passion for audio excellence, all brought to life by our acoustic  
22 engineers. <br/>With every new product, we strive to redefine audio  
23 performance for the price.  
24 </p>  
25 <!--  
26 <p>Our products include:</p>  
27 <ul>  
28 <li>Wireless Speakers</li>  
29 <li>SubWoofers</li>  
30 <li>Bluetooth Tower Speakers</li>  
31 </ul>  
32 -->  
33  
34  
35  
36 <p>  
37 But that's only part of the uCorp Experience. We also stand behind our products with the uCorp Customer Bill  
38 includes a 45-Day Risk-Free In-Home Trial, Fast and Free Shipping and Returns, our industry-leading 5-Year L  
39 confident you'll love our audio gear that we made it completely painless to audition for yourself in the be  
40 </p>  
41 </blockquote>  
42 <h3>Our Products</h3>  
43 <blockquote>  
44 <p>  
45 From the coherent soundstage, pinpoint imaging, superb detail and sonic transparency of our reference-grade v
```

3. Save your changes and view your edited file in a browser. You will no longer see the bulleted list and its introduction.



Screenshot 10: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document.

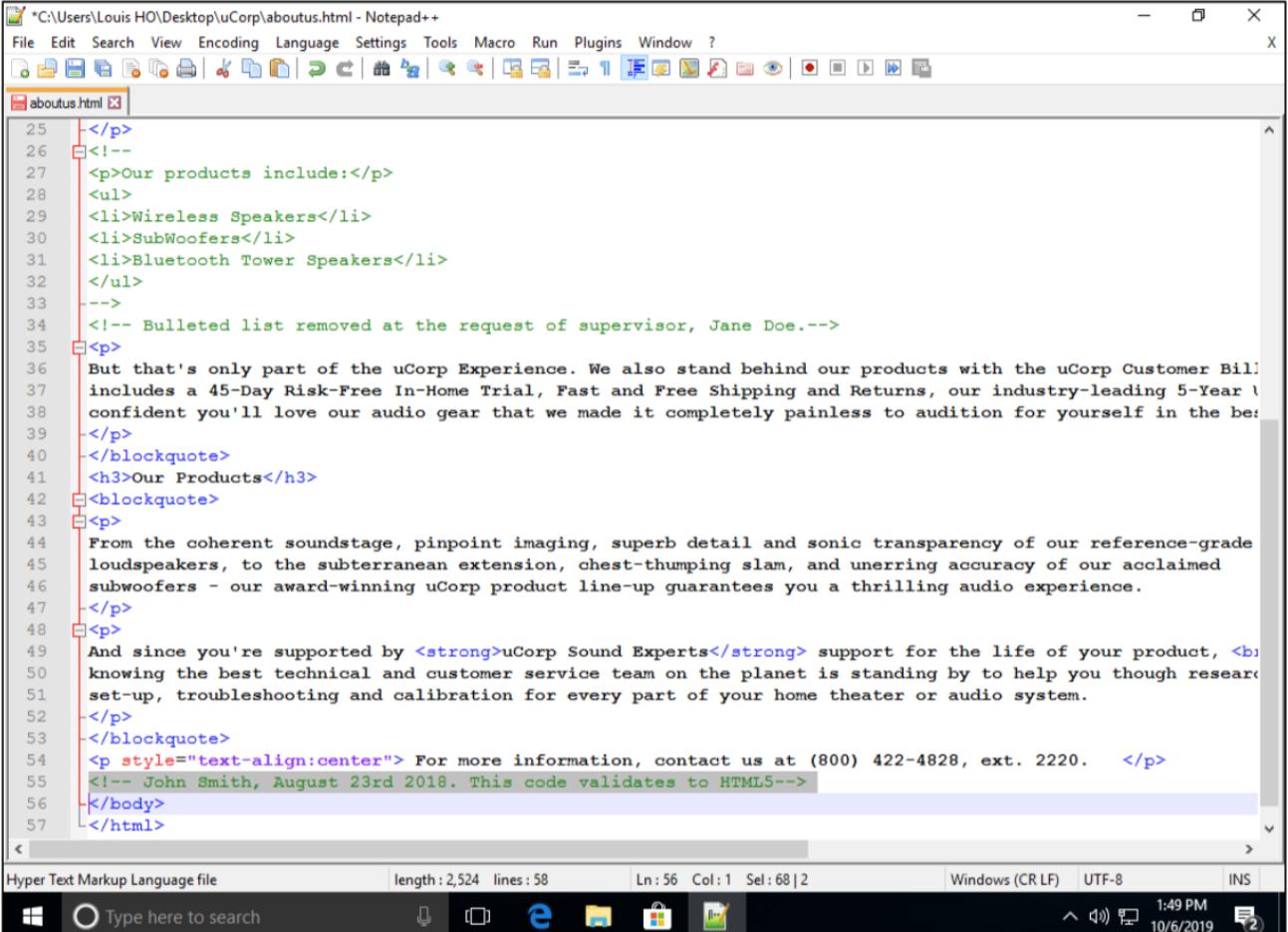
4. Validate your code to ensure that you have used the comments properly. Sometimes adding comments can cause you to mistakenly omit closing tags and/or interrupt a nesting sequence.

5. Document the reason that you removed the bulleted list by creating another comment immediately after the bulleted list you just commented out:

<!-- Bulleted list removed at the request of supervisor, Jane Doe.-->

6. Near the bottom of the file, just above the </body> tag, document your code so that another developer can identify who wrote it. Insert your name, the date, and a statement that this code validates to HTML5:

<!-- Your Name, Today's Date. This code validates to HTML5-->



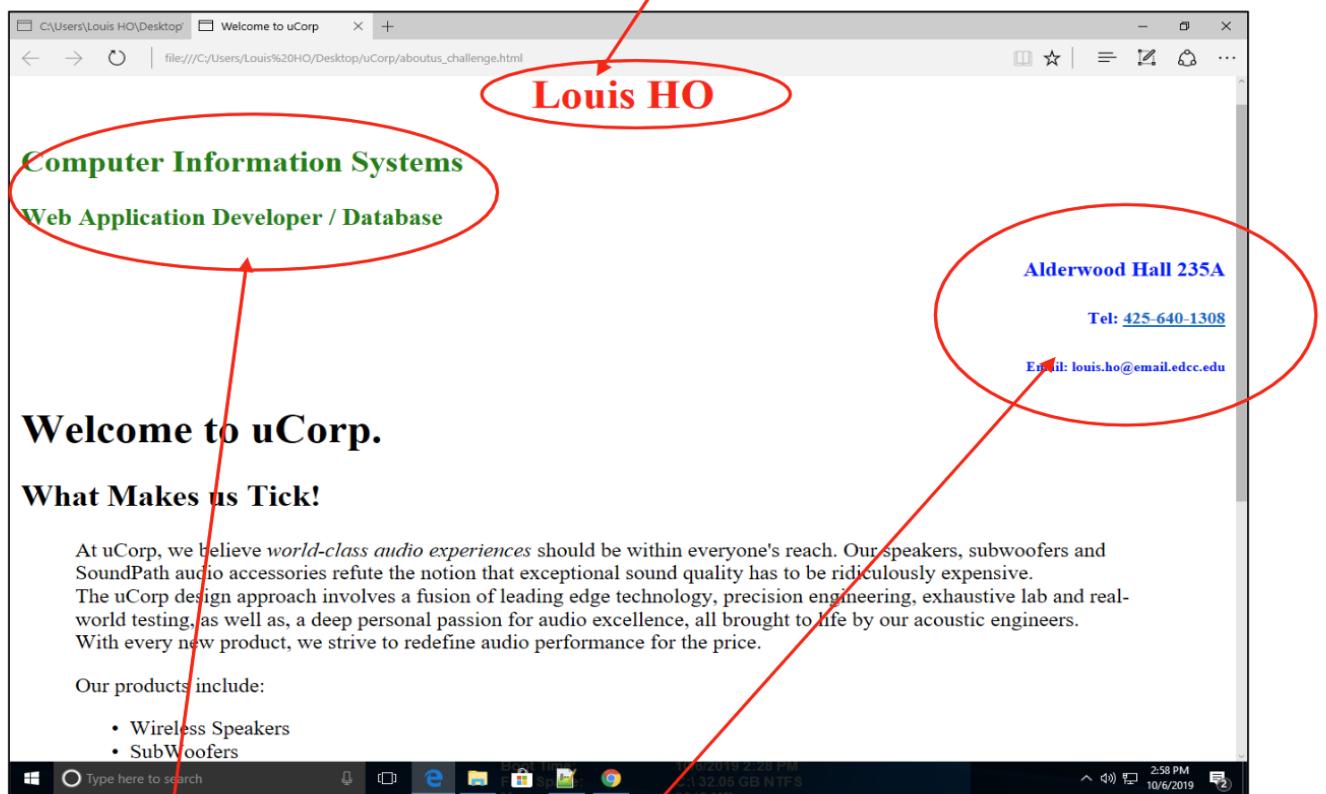
The screenshot shows a Notepad++ window with the file "aboutus.html" open. The code is a snippet of HTML with several comments. A large block of code from line 26 to line 56 is enclosed in a multi-line comment block, starting with '<!--' and ending with '-->'. Inside this block, there is another single-line comment at line 34: '<!-- Bulleted list removed at the request of supervisor, Jane Doe.-->'. At the very bottom of the code, just before the closing </body> tag, is the text: '<!-- John Smith, August 23rd 2018. This code validates to HTML5-->'. The Notepad++ status bar at the bottom shows the file type as "Hyper Text Markup Language file", length as 2,524, and lines as 58. The bottom right corner of the screen shows the Windows taskbar with the date and time as 10/6/2019 1:49 PM.

7. Validate your code again.
8. Review your code in the text editor. Make sure that it is easy to read in terms of good coding practice.
9. **If time permits:** Create additional comments explaining the code.
10. Close all editors and browsers.

In this lab, you documented and commented out portions of your markup.

Step 1. Lab 2-Challenge

Modify **aboutus.html**. Your **name** is in the **center** (in **red**).



Your **department** and **major** are on the **left** (in **green**).

Your **address**, **phone** and **email** are on the **right** (in **blue**).

Screenshot 11: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**

Hint:

See

https://www.w3schools.com/html/html_css.asp

https://www.w3schools.com/tags/att_global_style.asp

https://www.w3schools.com/tags/tag_hn.asp

Step 2. Week 3 - HTML5 Coding Site Structure Assignment

Open Modules > Week 3 - HTML5 Coding > Site Structure Assignment.

The screenshot shows a web browser window with the URL edcc.instructure.com/courses/1970551/assignments/19970550/module_item_id=46642493. The page title is "Site Structure Assignment". On the left, there is a sidebar with various course links like Home, Announcements, Grades, Syllabus, Modules, Assignments, People, Panopto Recordings, Google Drive, Pages, Collaborations, Quizzes, Outcomes, Conferences, Files, Rubrics, Student Resources, New Analytics, Triton Connect, and Capti Voice. The main content area displays the assignment details:

Final Project Site Structure Assignment

Assignment Objective: In this assignment, you will demonstrate your ability to:

- Determine and create appropriate site folder structure.

What kind of file structure are you going to use for you **Competency Demonstration - CIS 241 Web Dev I Final Project**? If you need, you may want to go back and review the types of folder structures from the [Web Site Processes and Planning module](#). You should pick from the four types of general file structures described.

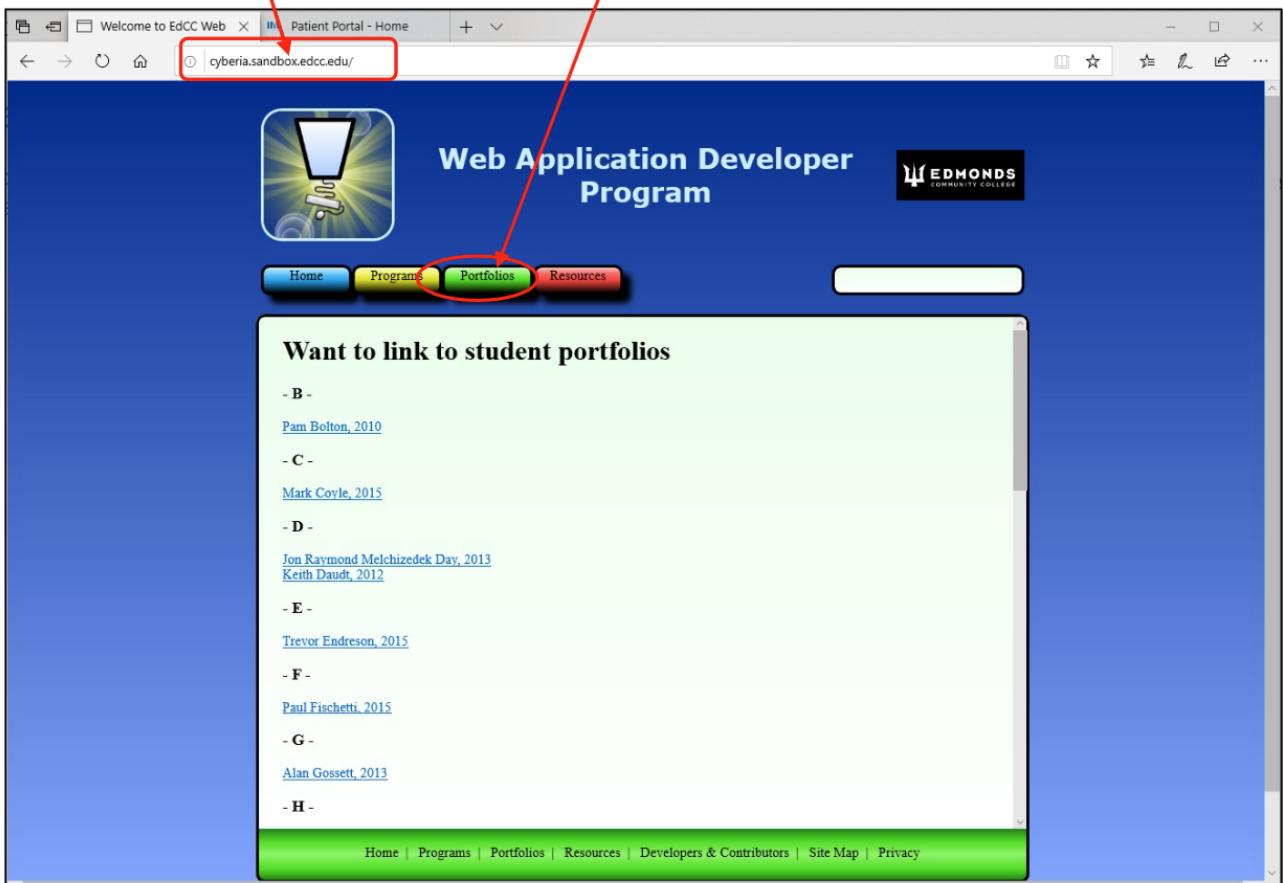
- Single directory sites
- Directory by function
- Directory by file type
- Hybrid

Once you have made the choice of what type of file structure you will be using you will be creating a graphical depiction of the location for .htm files within the file structure. EXAMPLE:

In this assignment, you will start building your **Personal Web Site** for your **Final Project** (**Competency Demonstration - CIS 241 Web Dev I Final Project**).

The screenshot shows the CIS 241 F20 11 dashboard. A red arrow points from the previous screenshot to the "Competency Demonstration - CIS 241 Web Dev I Final Project" assignment in the list of modules. The assignment is due on Dec 9 at 200 pts. Other visible assignments include "Competency Demonstration - CIS 241 CIW Site Development Associate Exam, Optional, Extra Credit 100 points" (due Dec 4) and "MICROSOFT HTML5 Application Development Fundamentals, Certification Exam 98-375, Optional, Extra Credit 100 points" (due Dec 7). The dashboard also includes sections for "Additional CIS Student Information", "Ask A Question", "About your Instructor", and "Week 1 - Pre-Assessment, 9/21/2020 Monday".

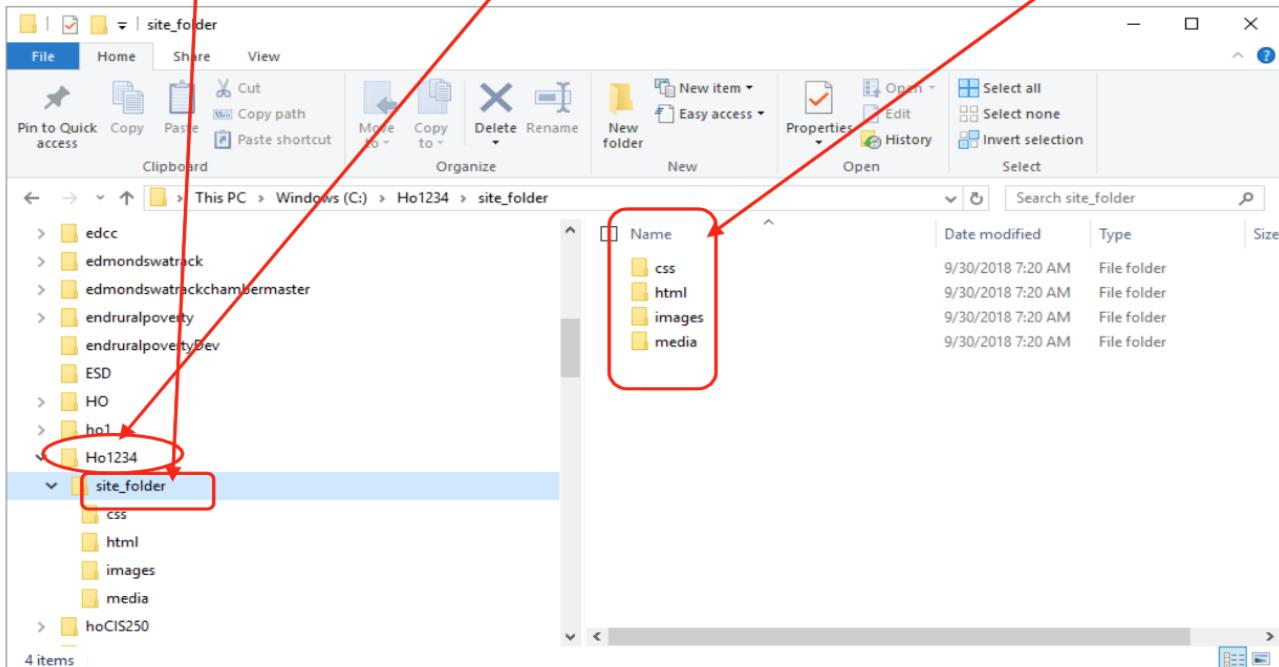
You will find some advanced examples of the final project in the link <http://cyberia.sandbox.edcc.edu/> (Click on **Portfolios**. Notice these are the exit portfolio of **Web Developer** students completed in **CIS280 - Career Planning**, so it may contain more content than the CIS 241 Final Project),



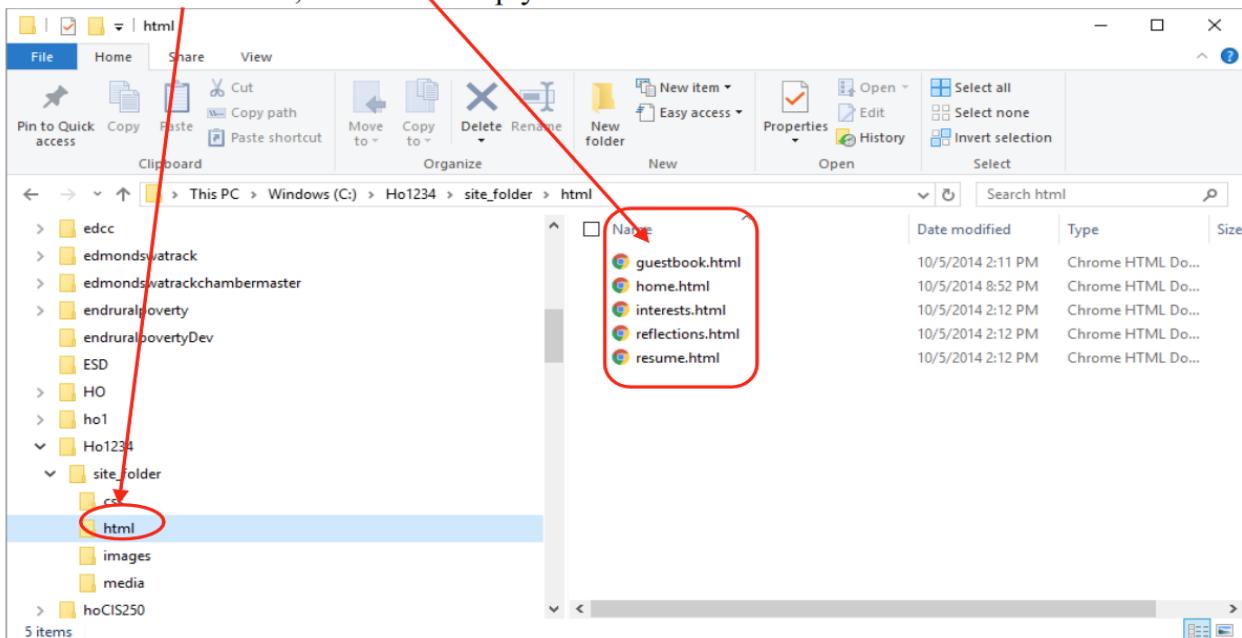
Create your folder to store your web project. Your folder should be named with the first four letters of your last name (or fewer if your last name only has less than four letters, and the last four digits of your student ID.)

For example, **Smit1234** for **John Smith**, **John1234** for **Amy Johnson**, etc.

Create a **site_folder** directory in your computer. Create four subfolders in **site_folder** directory



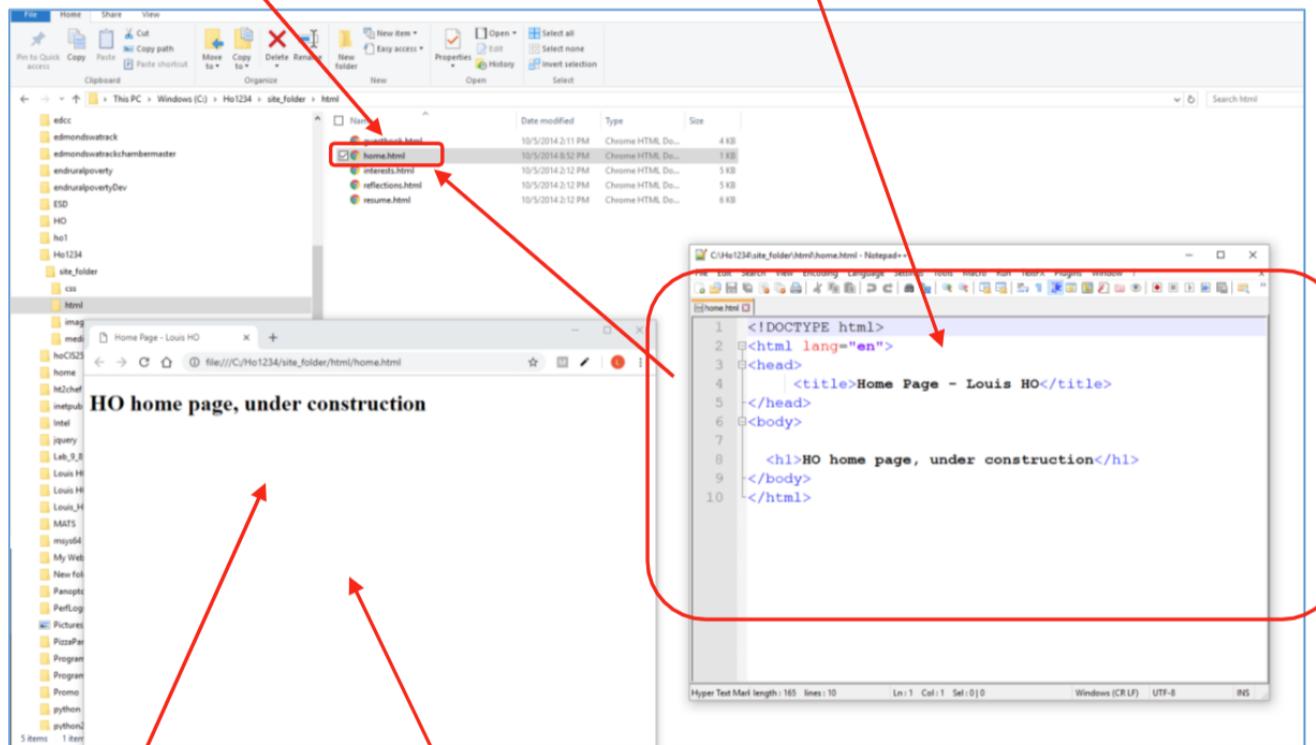
Inside the **html** folder, create five empty **html** files.



Enter the starting code in the **site_folder/html/home.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Home Page - Louis HO</title>
</head>
<body>

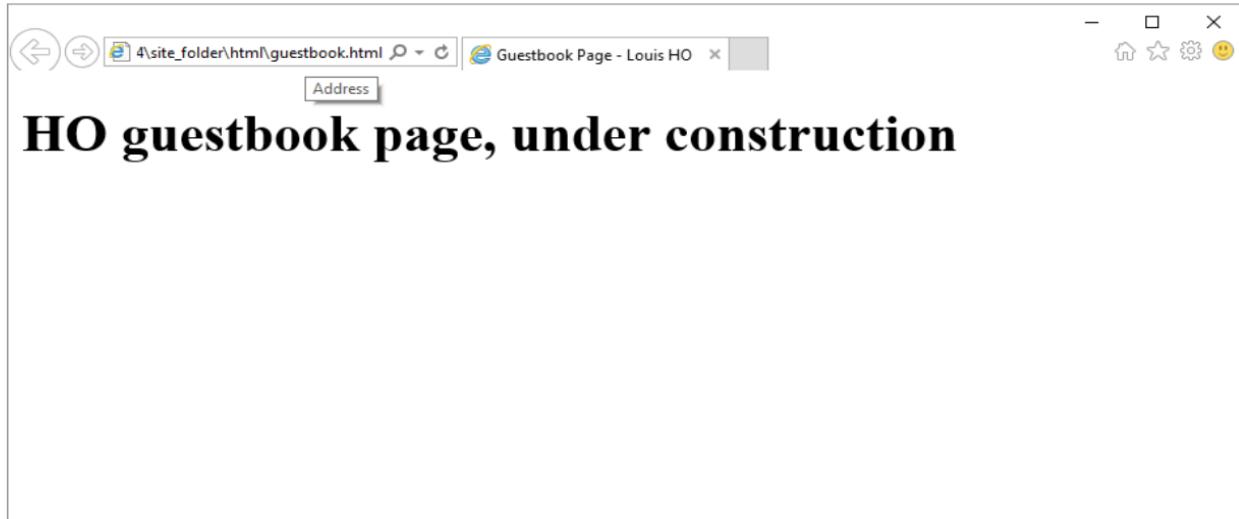
    <h1>HO home page, under construction</h1>
</body>
</html>
```



Open **home.html** with a web browser, e.g. **Microsoft Edge** or **Google Chrome**.

Screenshot 12: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**

Repeat to show the **guestbook.html** page.



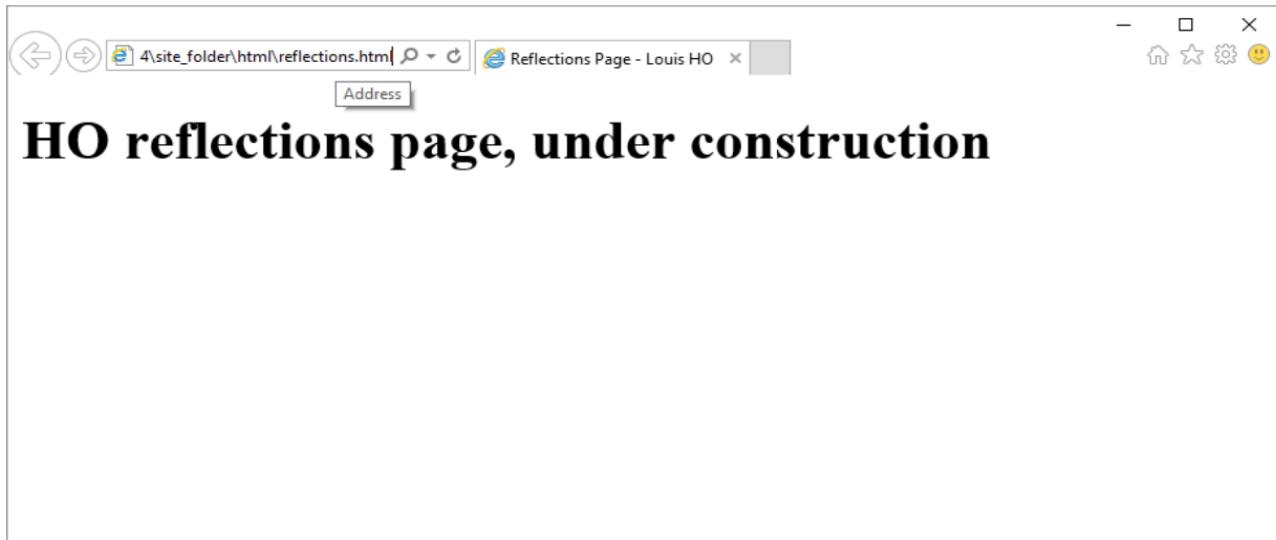
Screenshot 13: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**

Repeat to show the **interests.html** page.



Screenshot 14: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**

Repeat to show the **reflections.html** page.



Screenshot 15: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**

Repeat to show the **resume.html** page.



Screenshot 16: Click **PrtScreen** (or **Alt+PrtScreen**) to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Include the Screenshot number for each screenshot in the **Microsoft Word** document. **(Be sure to include your name in your screenshot!!!.)**