

CIS 241 - WEB DEVELOPMENT I
Week 6
2018-Fall, 10/22/2018

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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Up-coming Event:
Site Development Associate - Conclusion
Site Development Conclusion
Competency Demonstration - CIS 241 Web Dev I Final Project, Due Dec 3, 2018

My name is Louis HO, the instructor for this class. Email is the best way to communicate with me. I am a full time instructor so I will be available on campus if you need help. Below is my contact information.

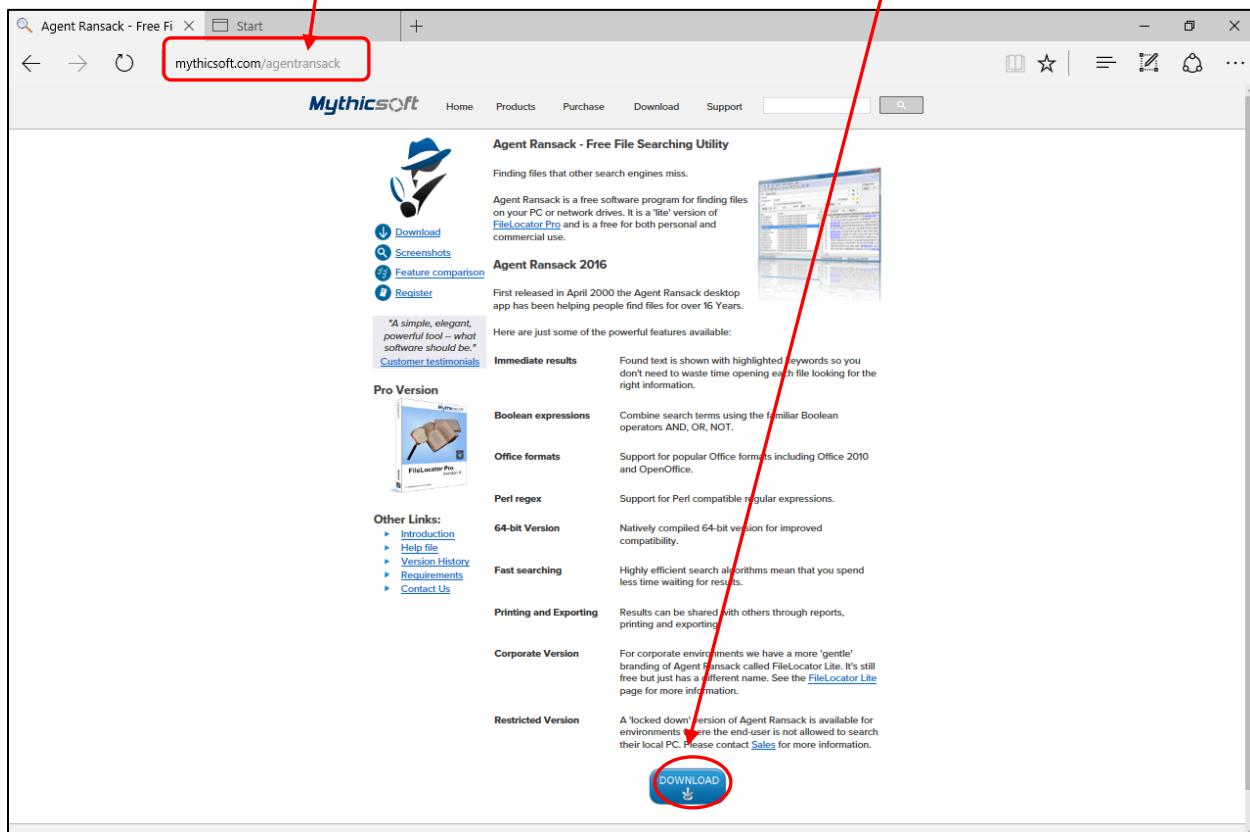
Louis HO
Instructor/Advisor, Computer Information Systems
Office: Alderwood Hall 235A, Tel: 425 640 1308
Email: louis.ho@email.edcc.edu

Step 1. Programming Tool, Agent Ransack Assignment

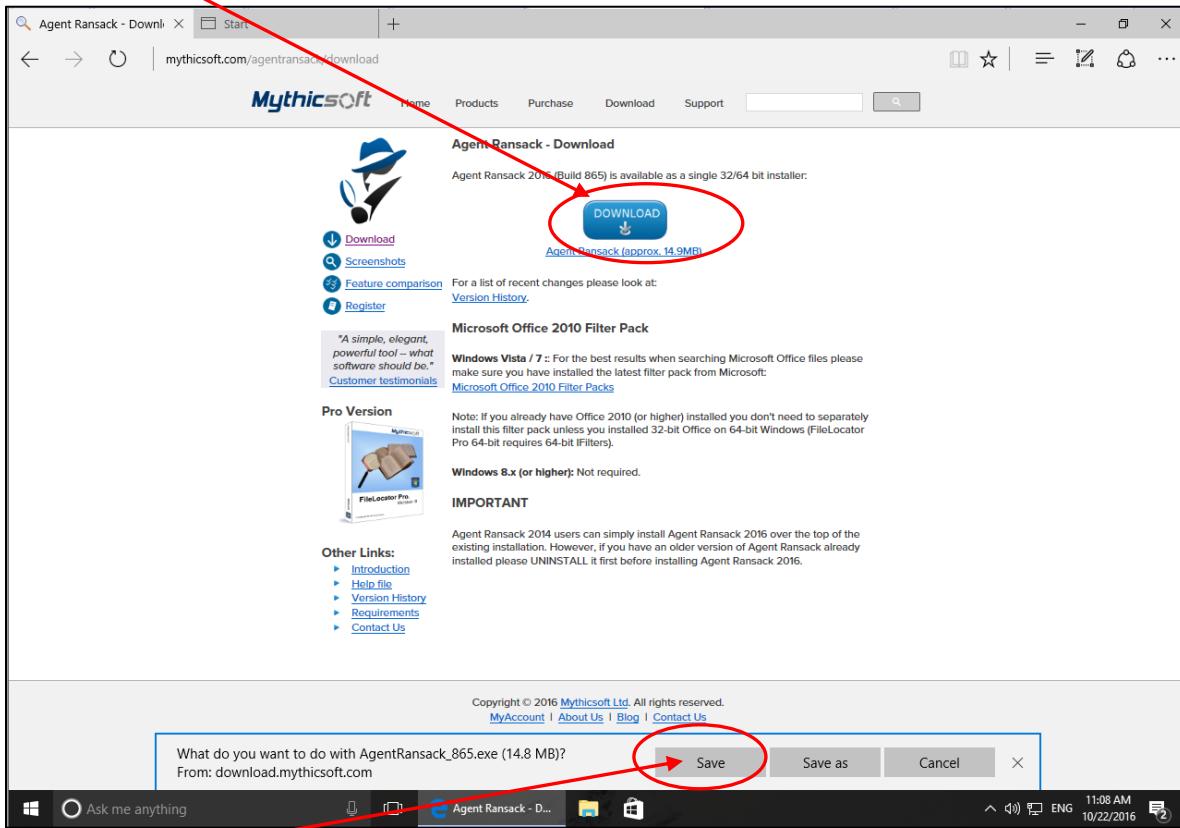
Besides **Notepad++** and **WinMerge**, **Agent Ransack** is one of the most useful tools for programmers. **Agent Ransack** is a free software program for finding files on your PC or network drives. We will install it and use it for our exercises.

Open **Internet Explorer** or a Web browser.

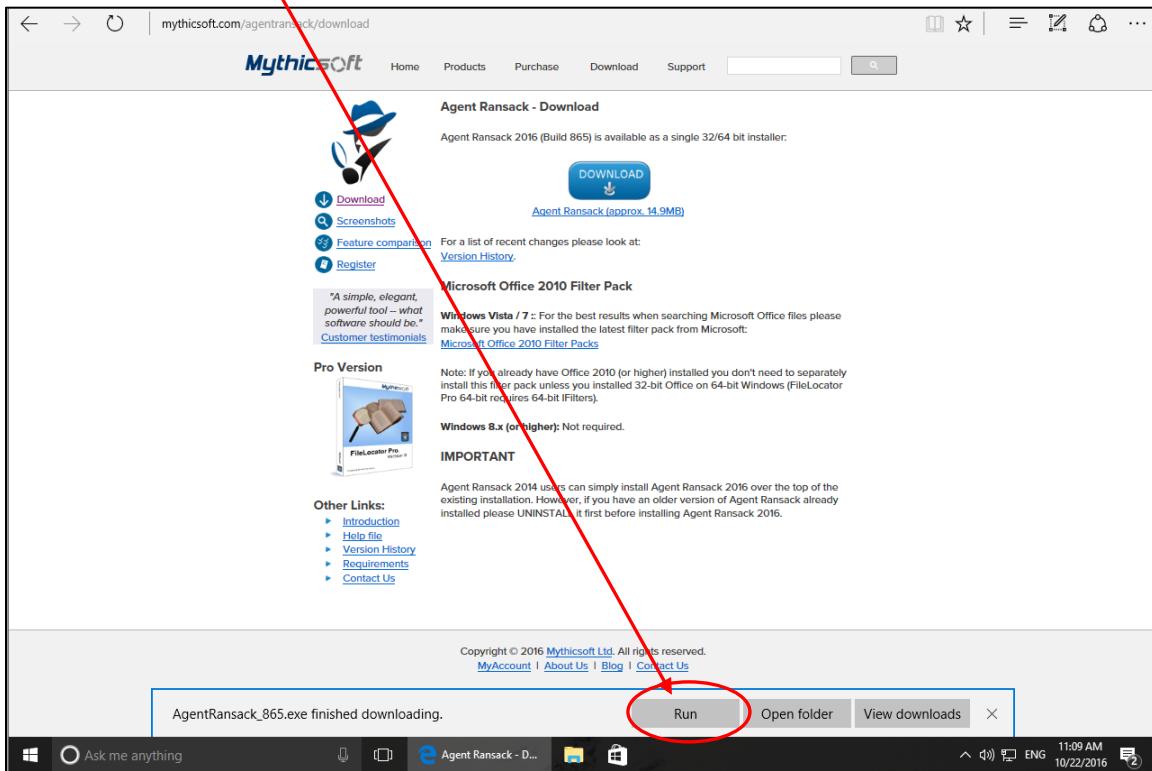
Connect to <http://www.mythicsoft.com/agentransack/>. Click **DOWNLOAD**.



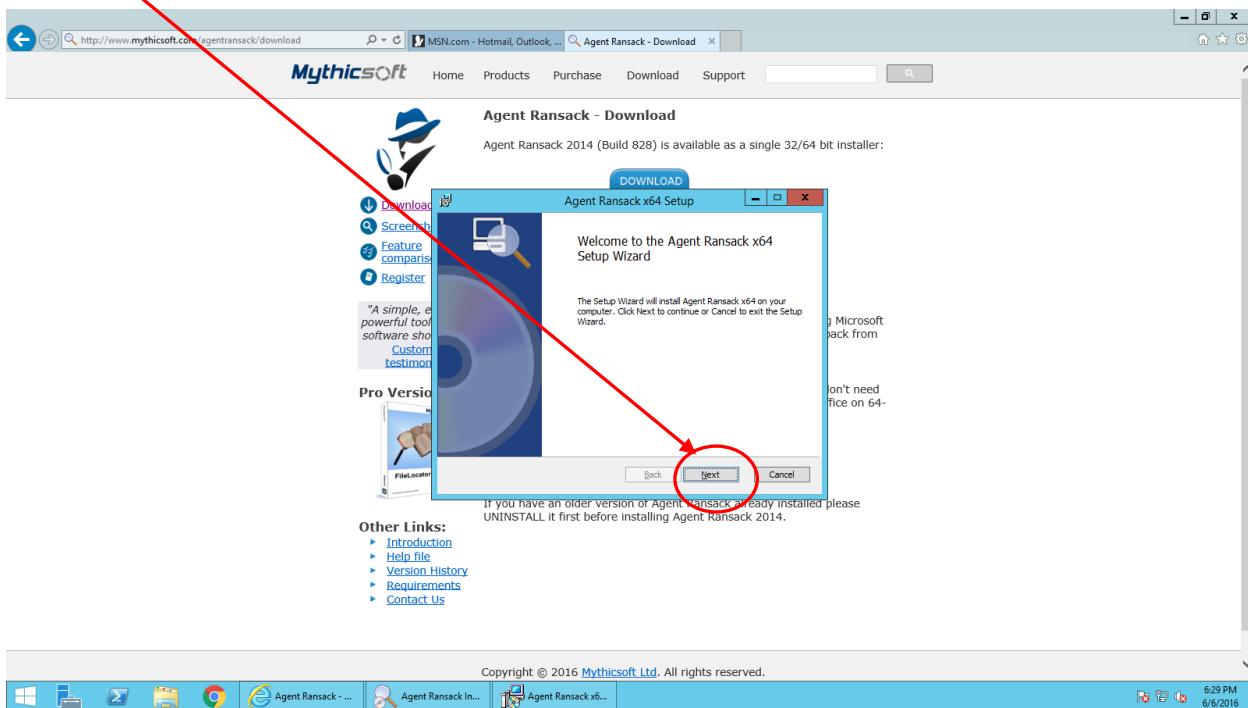
Click DOWNLOAD.



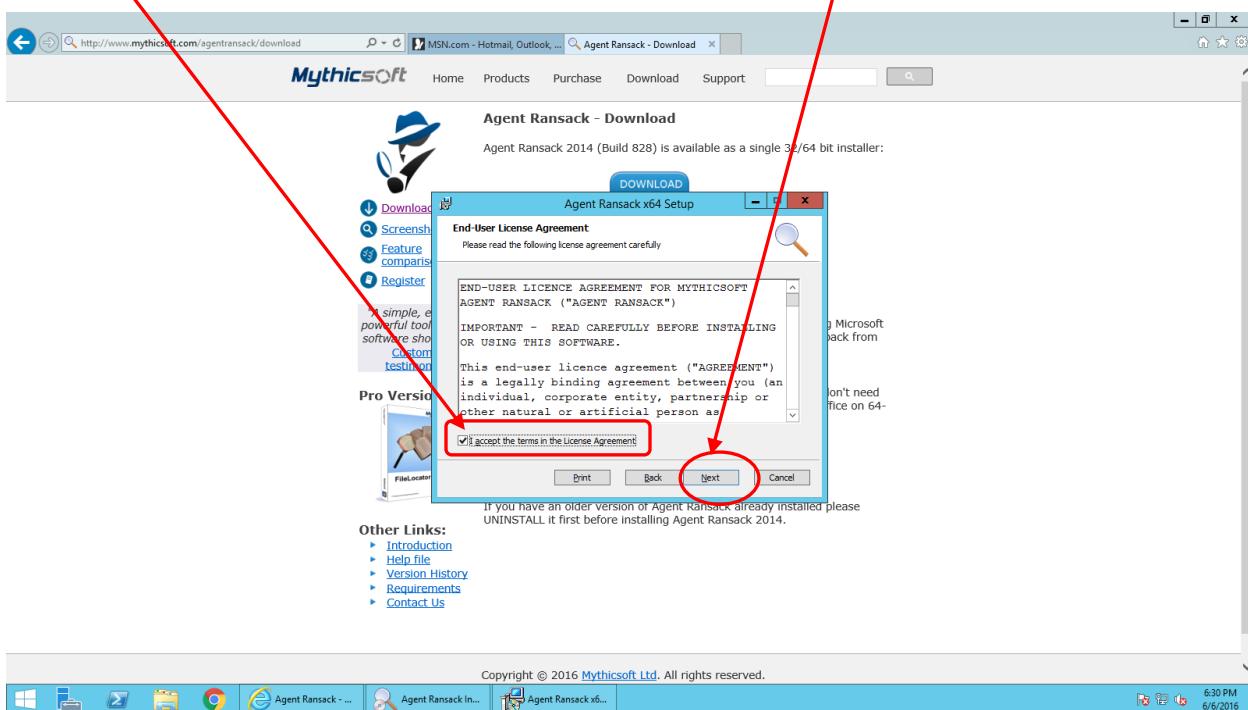
Click Save. Click Run.



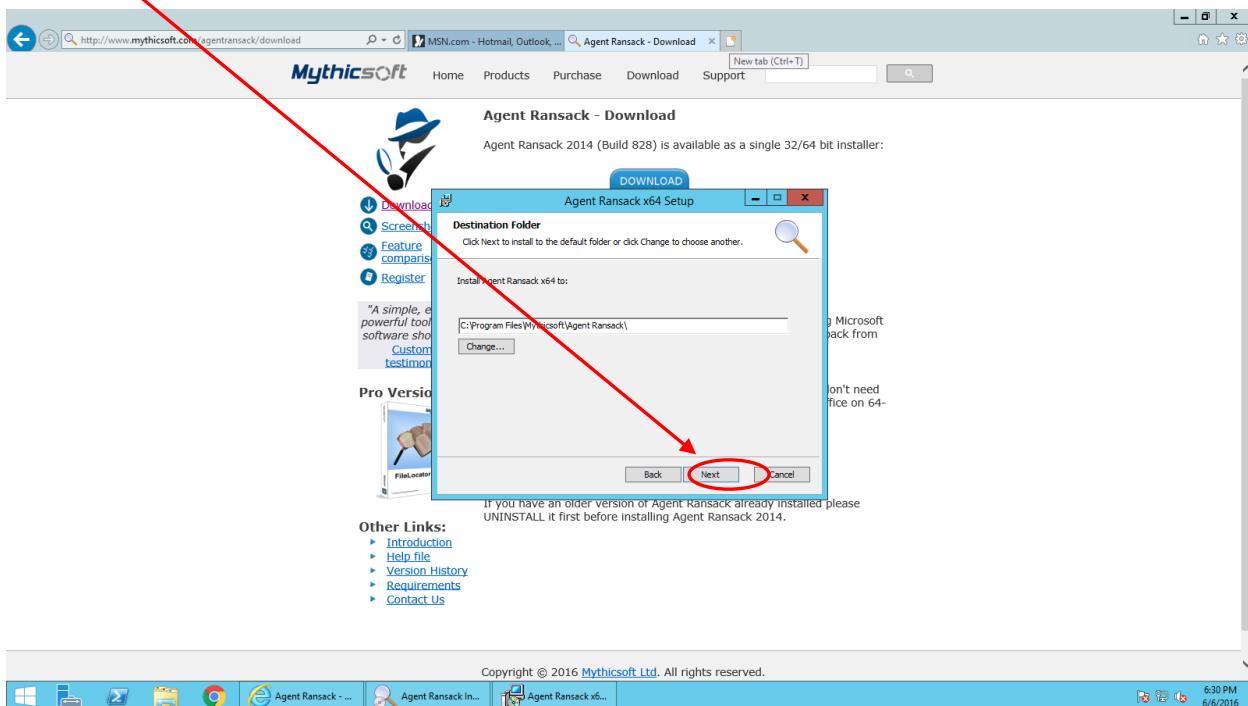
Click Next.



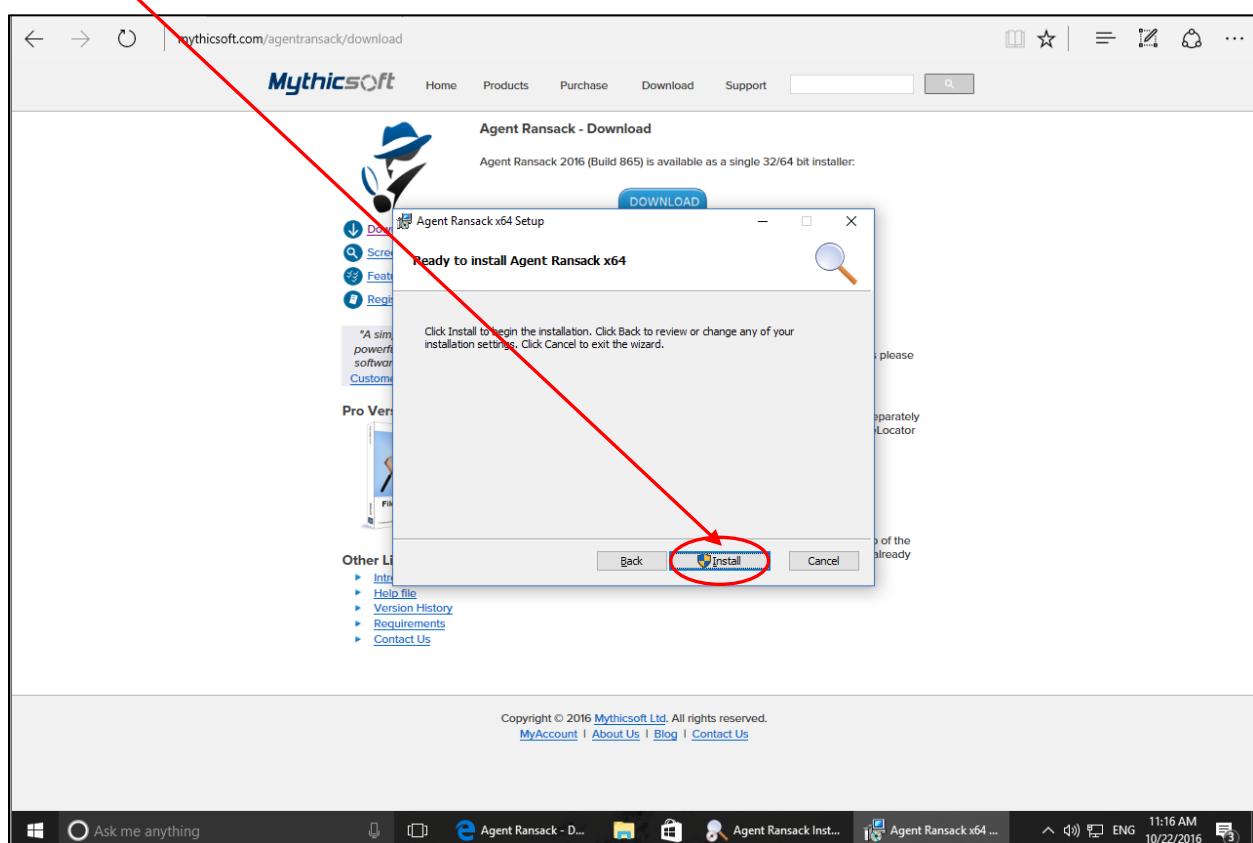
Click I accept the terms for the License Agreement. Click Next.



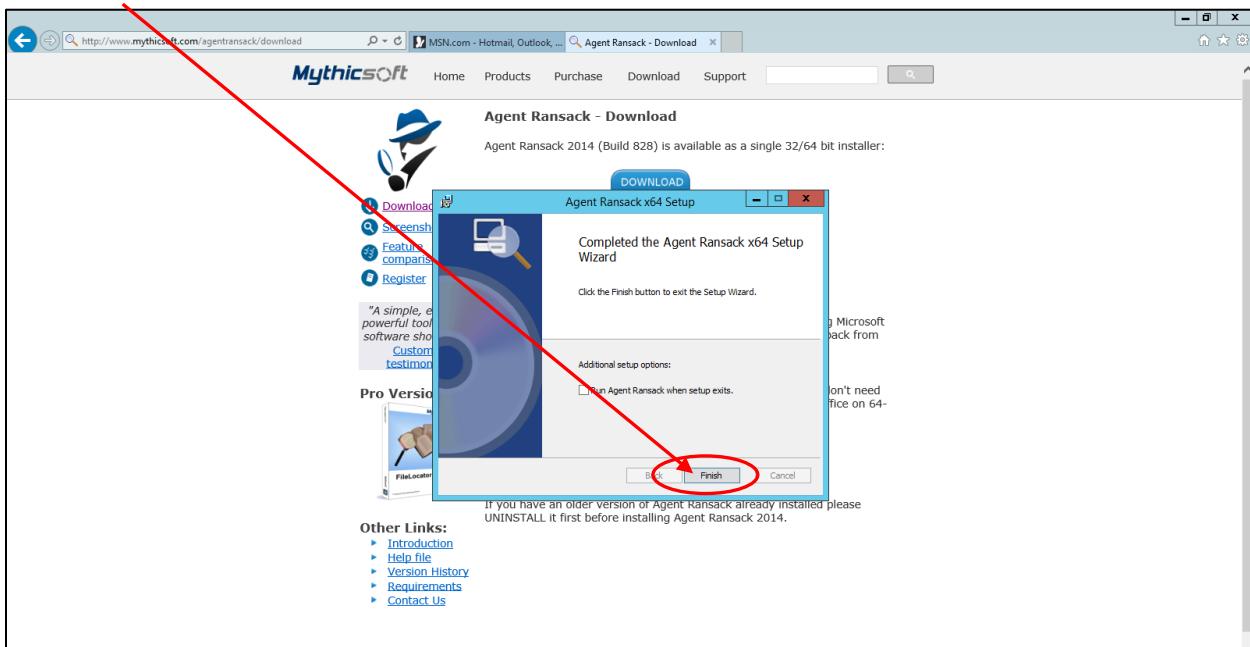
Click Next.



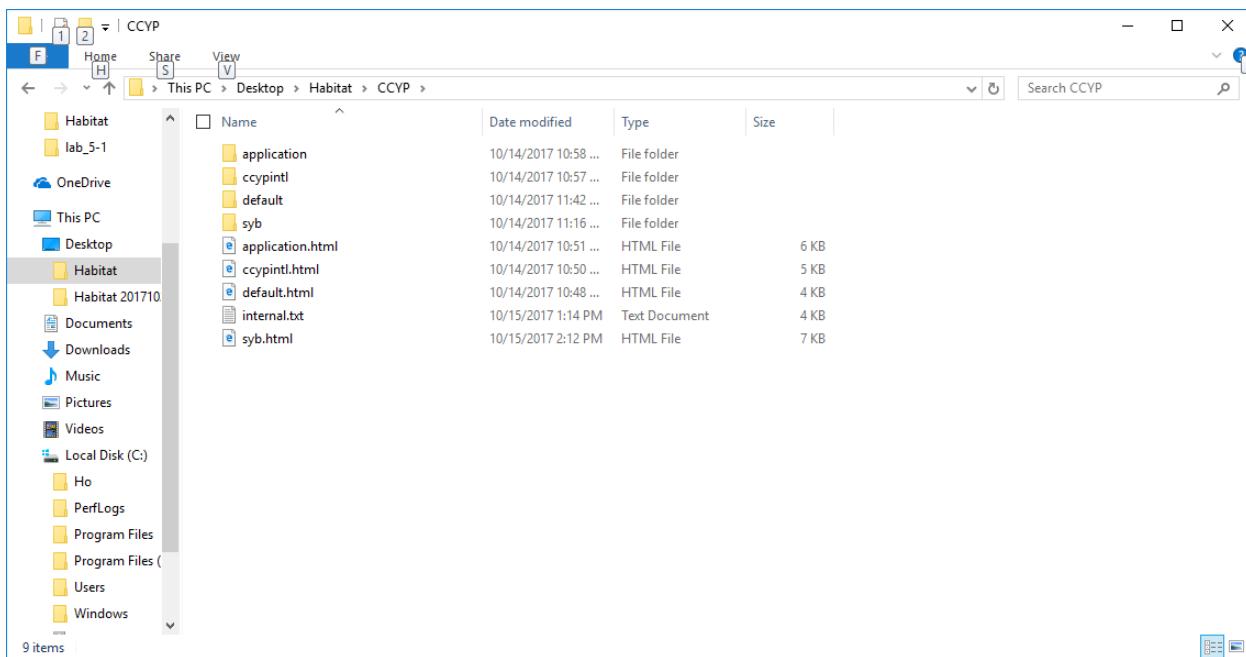
Click Install.



Click Finish.

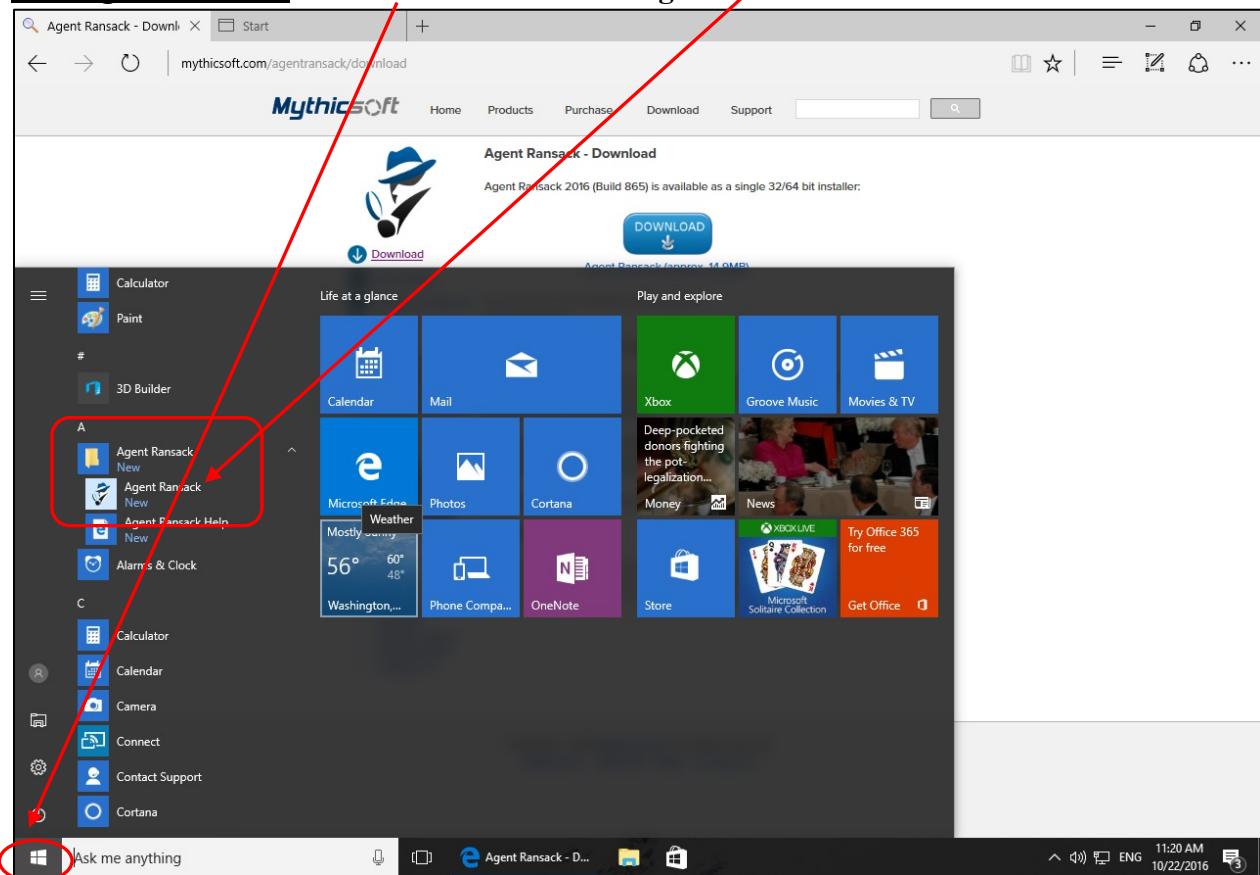


Open Habitat\CCYP (C:\Users\Youranme\Desktop\Habitat\CCYP) from Week 5 Lab assignment.

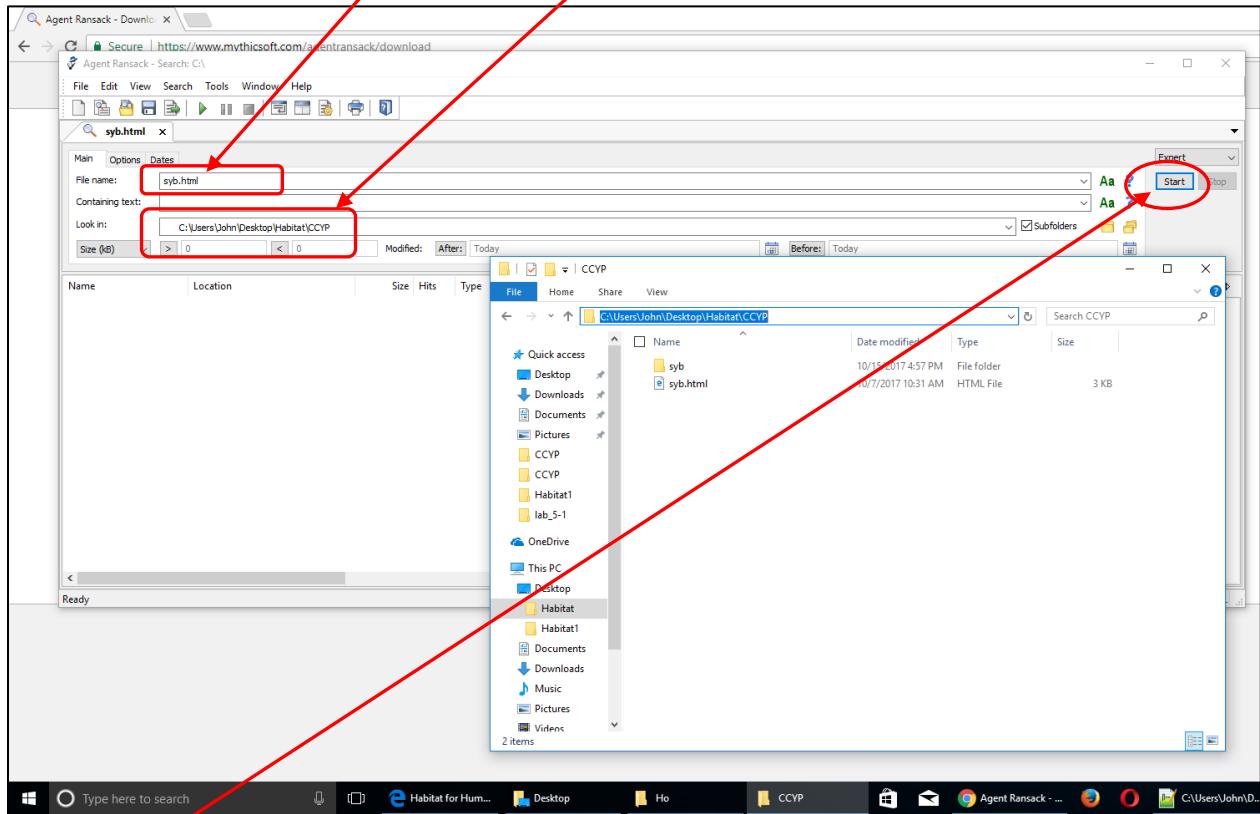


Screenshot 1: Click **PrtScreen** to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises.

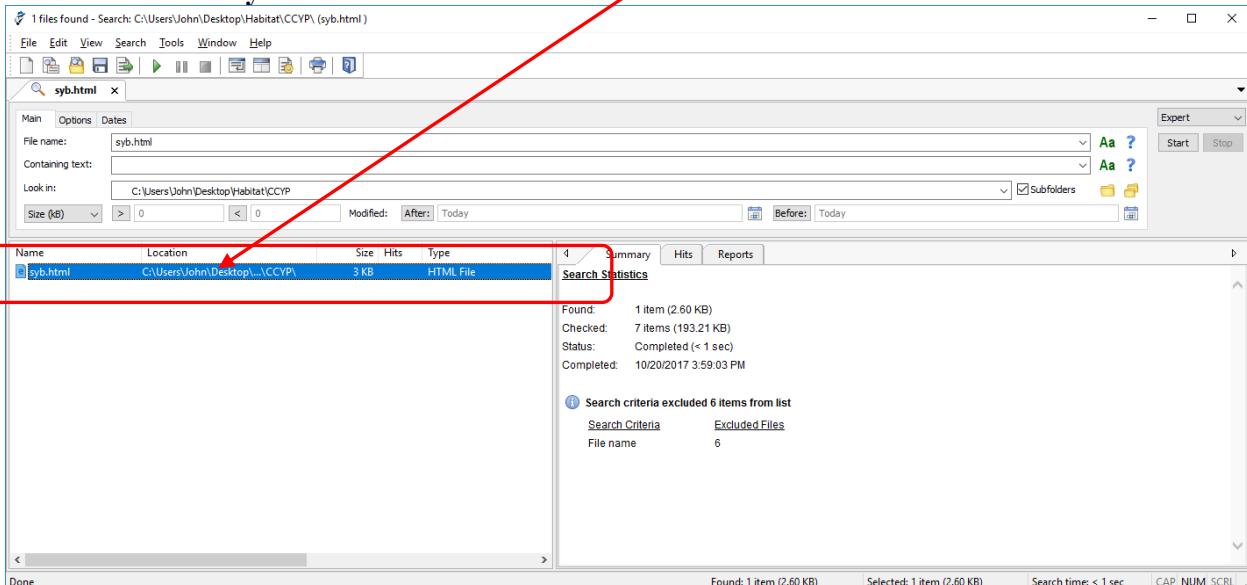
Start Agent Ransack. Click Start button. Click Agent Ransack.



In Agent Ransack, search for **syb.html** in **C:\Users\Youranme\Desktop\Habitat\CCYP** folder.

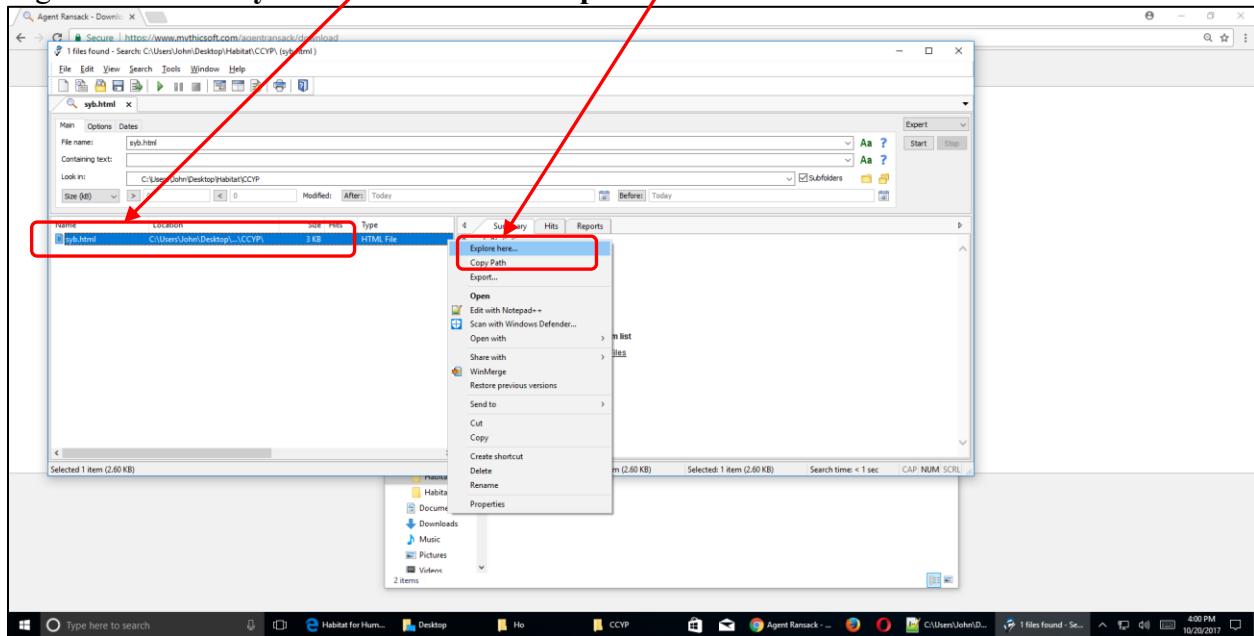


Click Start. The **syb.html** file is found in the **Habitat\CCYP** folder.

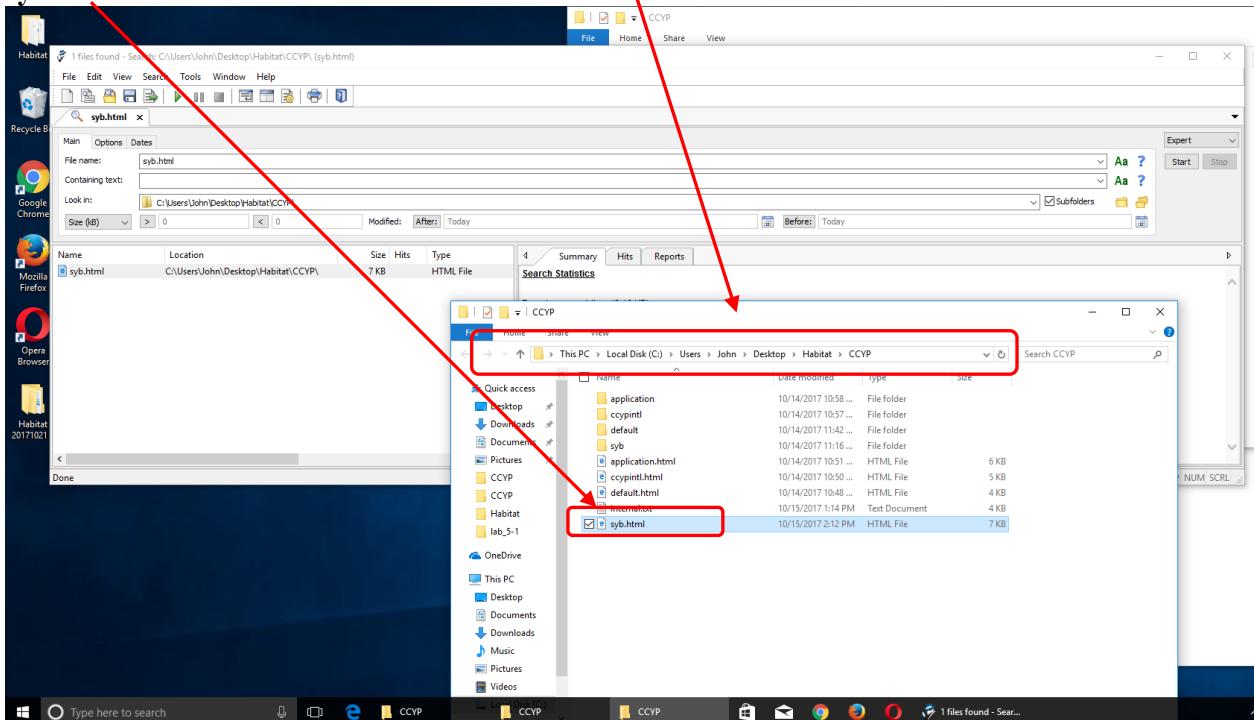


Screenshot 2: Click PrtScreen to take a screen shot of the result and paste it in a Microsoft Word document. Submit the Microsoft Word document at the end of the labs through Canvas together with the screenshots of other exercises.

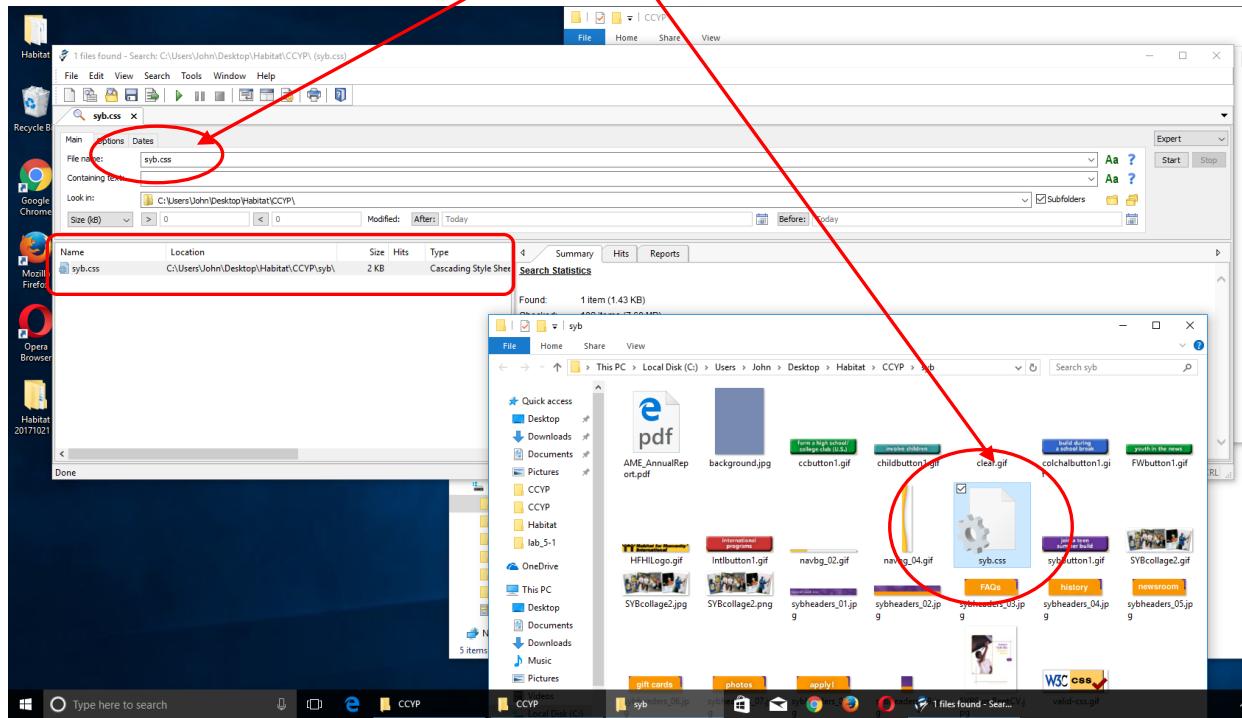
Right click on the **syb.html** file and click **Explore here**.



This will open the **C:\Users\Youranme\Desktop\Habitat\CCYP** folder which contains the **syb.html** file.



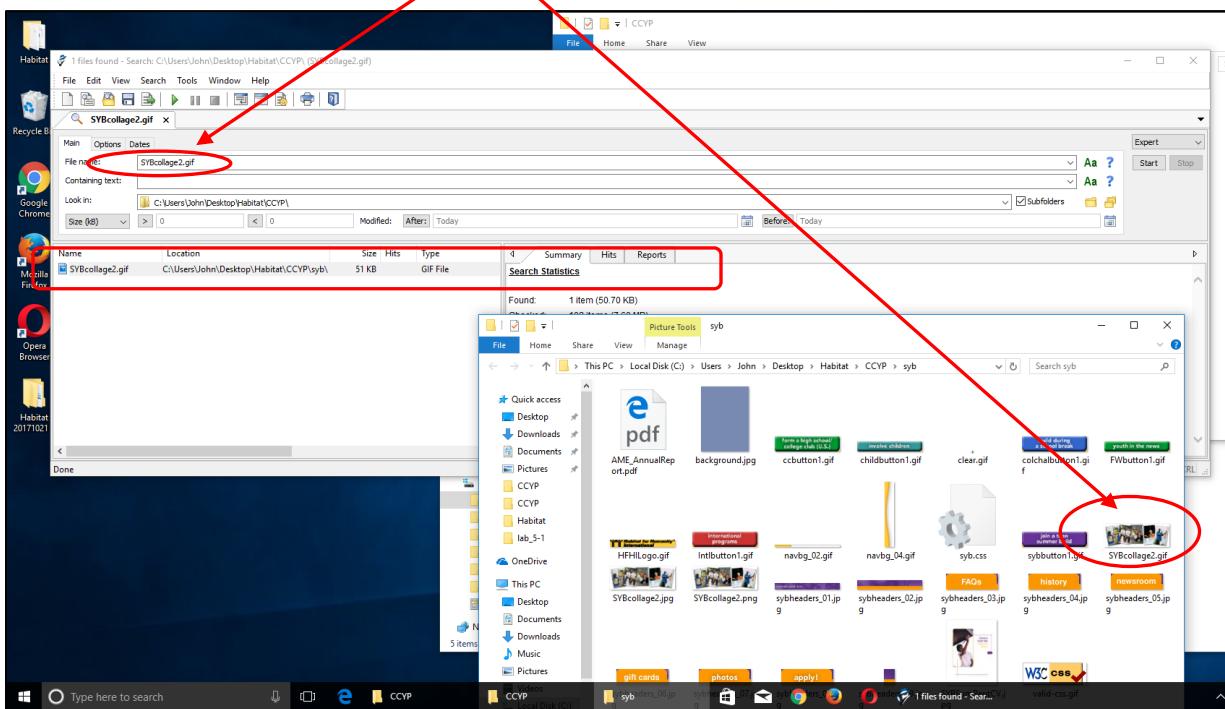
Challenge 1: In Agent Ransack, find the syb.css file.



Screenshot 3: Click **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.

Challenge 2:

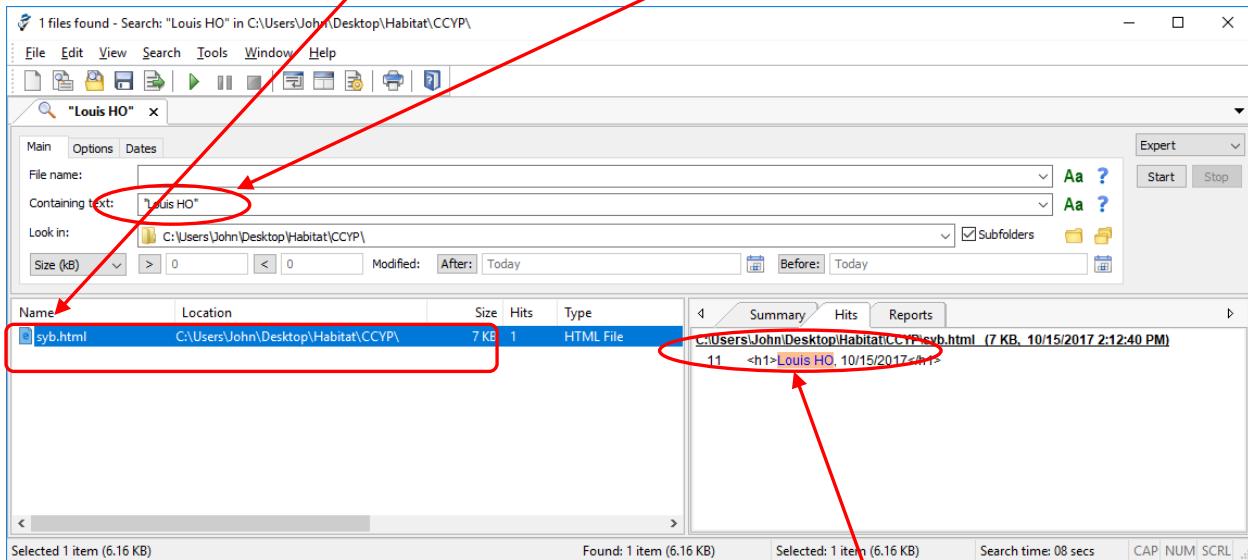
In Agent Ransack, find the SYBcollage2.gif file.



Screenshot 4: Click **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.

Challenge 3:

In Agent Ransack, find the file which contain your name.



Screenshot 5: Click 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. Remember to show your name and date.

Step 2. Week 6 – Lesson 5 HTML Tables Assignment

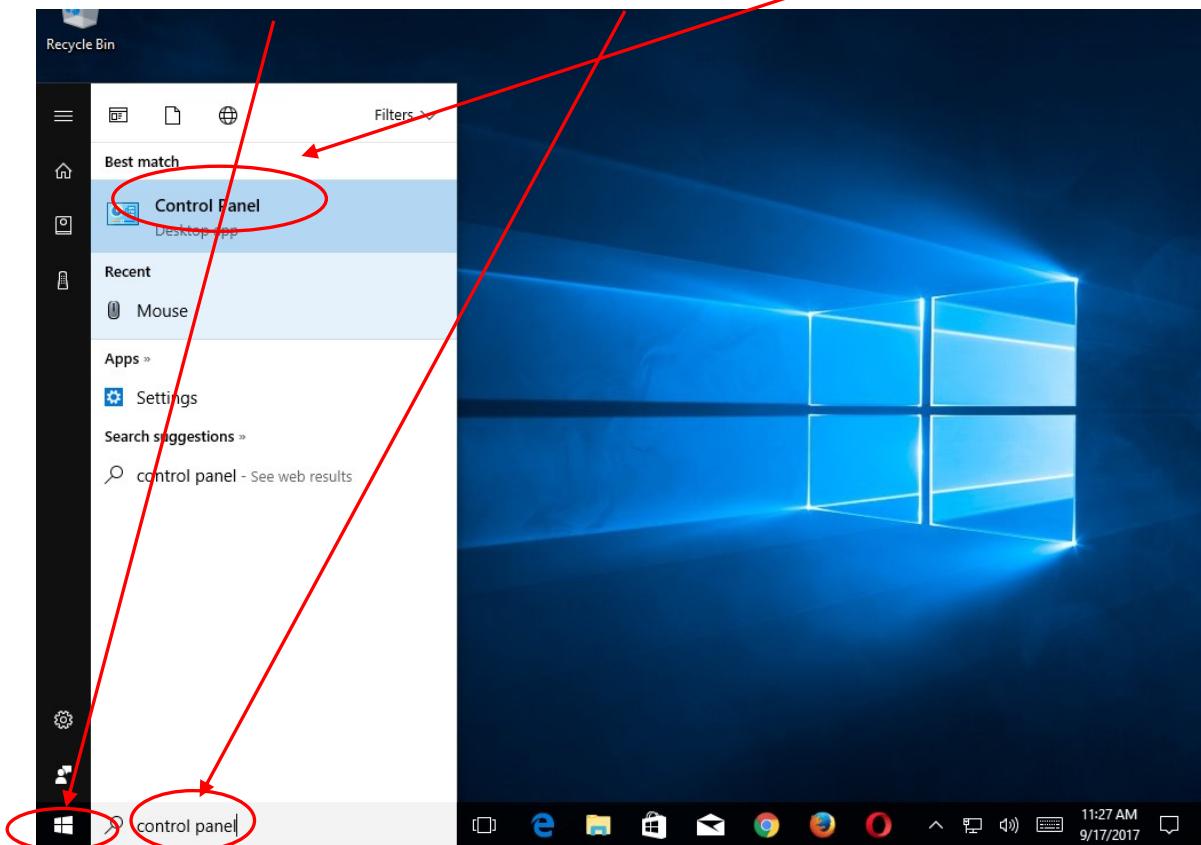
Lab 5-1: Creating HTML tables to organize content

Lab 5-1: Creating HTML tables to organize content

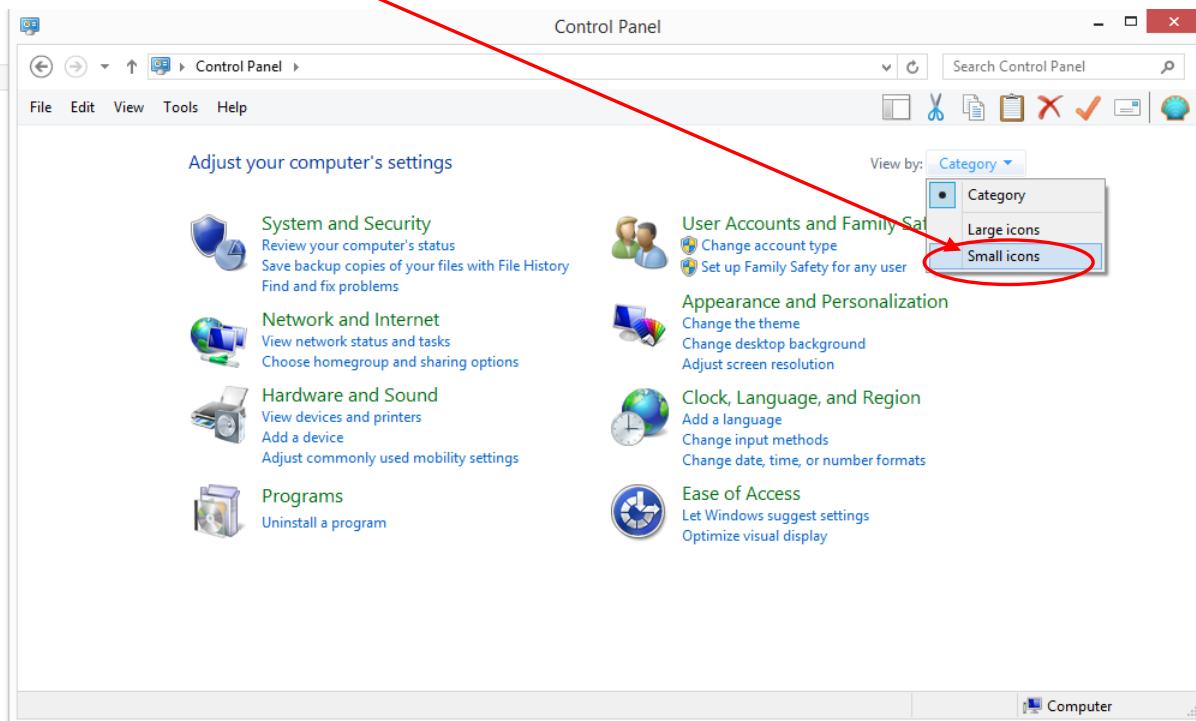
In this lab, you will convert existing content into tabular format by creating an HTML5 table.

First, in your computer, you need to modify the configuration so it will show the files extensions:

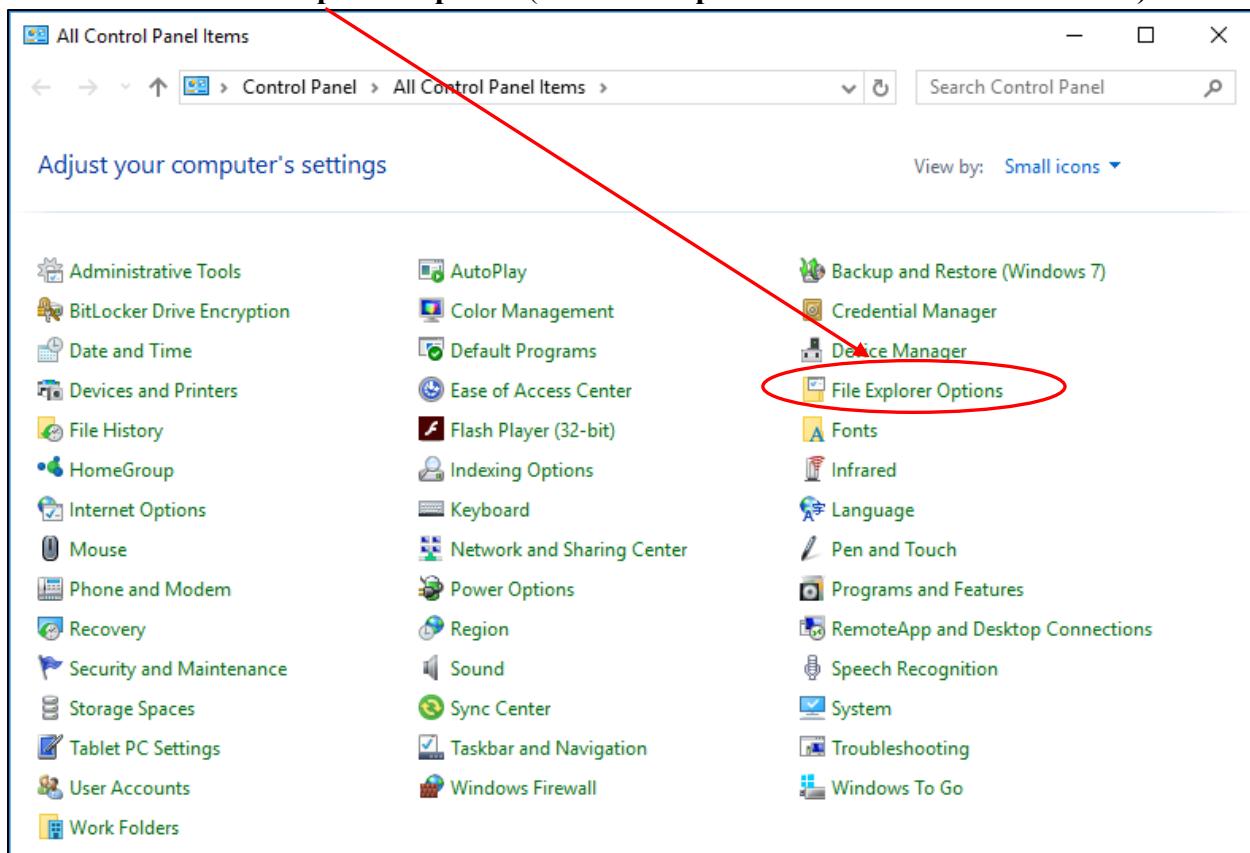
Right-click on Start Button and type **Control Panel**. Click on **Control Panel**.



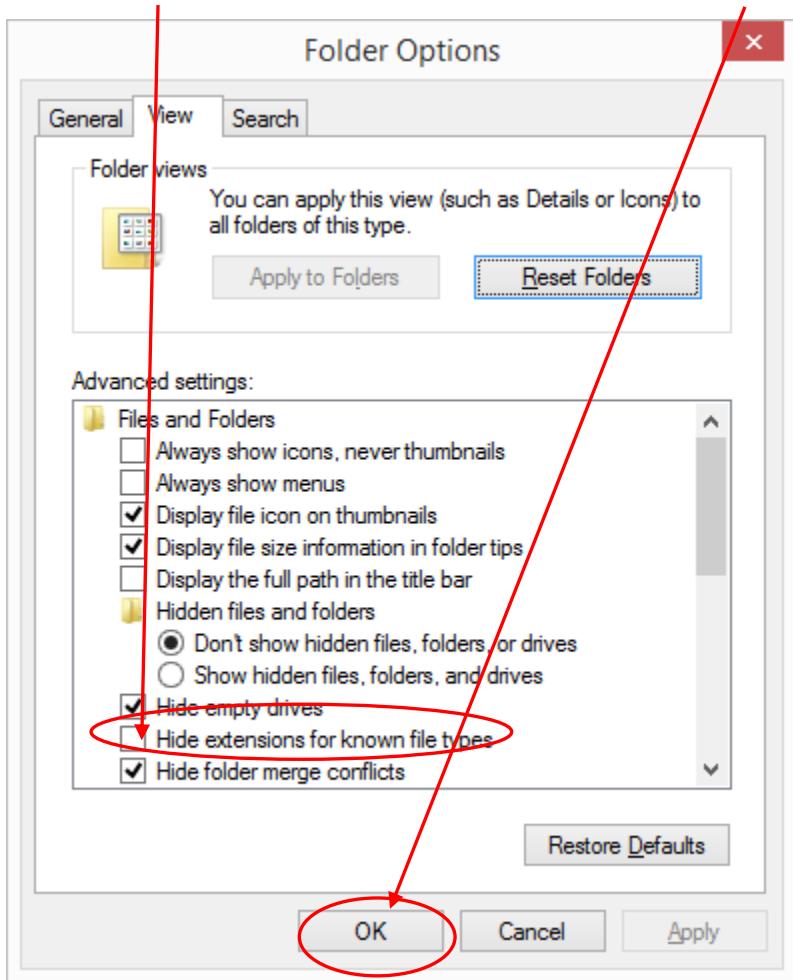
Click on Category > Small icons.



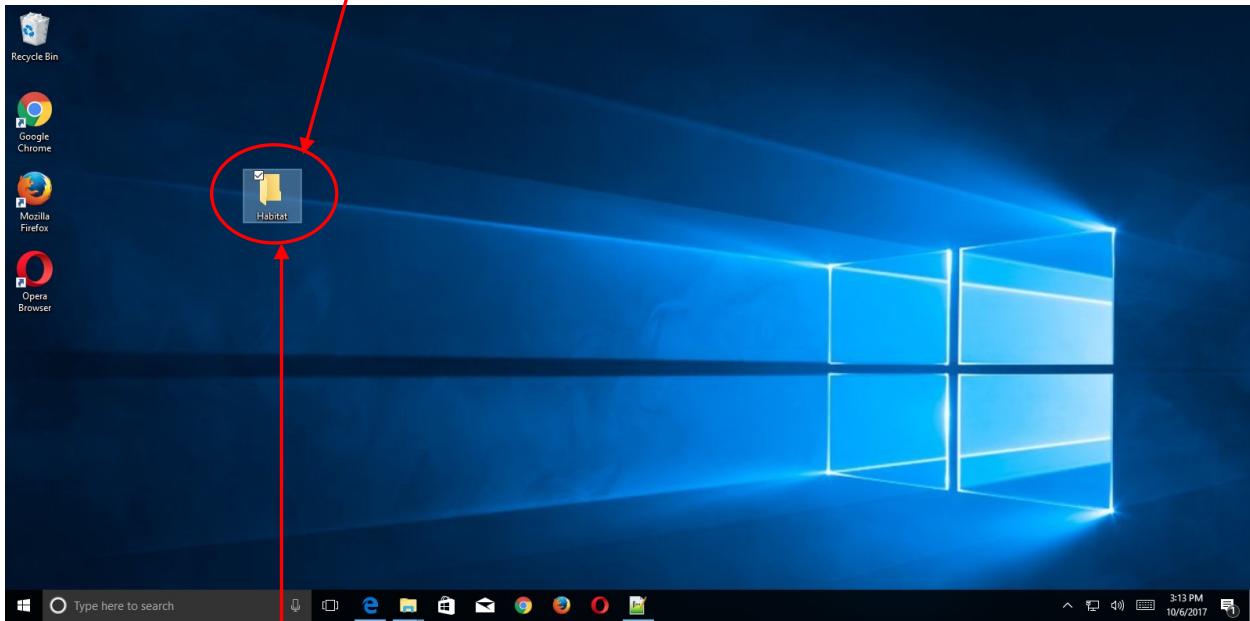
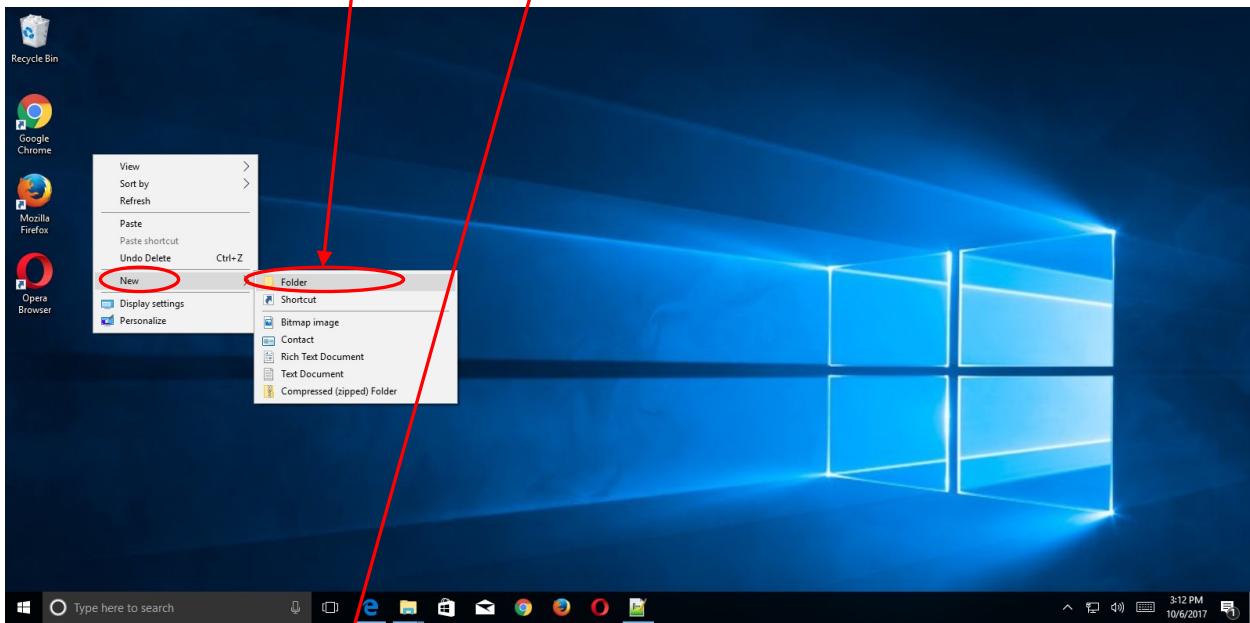
Double-click on File Explorer Options (or Folder Options in older Windows versions).



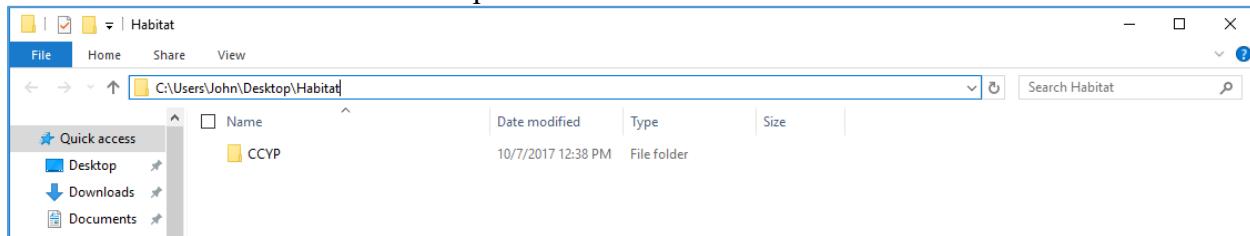
Uncheck **Hide extensions for known file types**. Click **OK**.



In your **Desktop**, create a new folder **Habitat** (Skip this step if you already done it in **Week 3**)
Step 1. Lab 3-1: Using an external style sheet with HTML



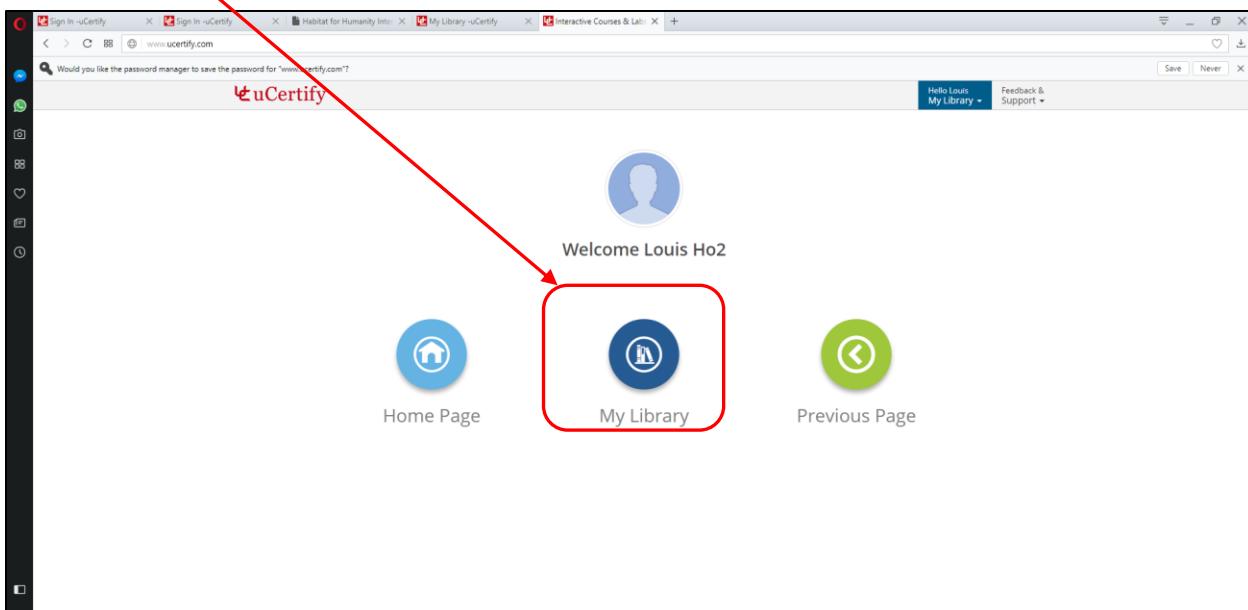
Double-click the **Habitat** folder to open it.



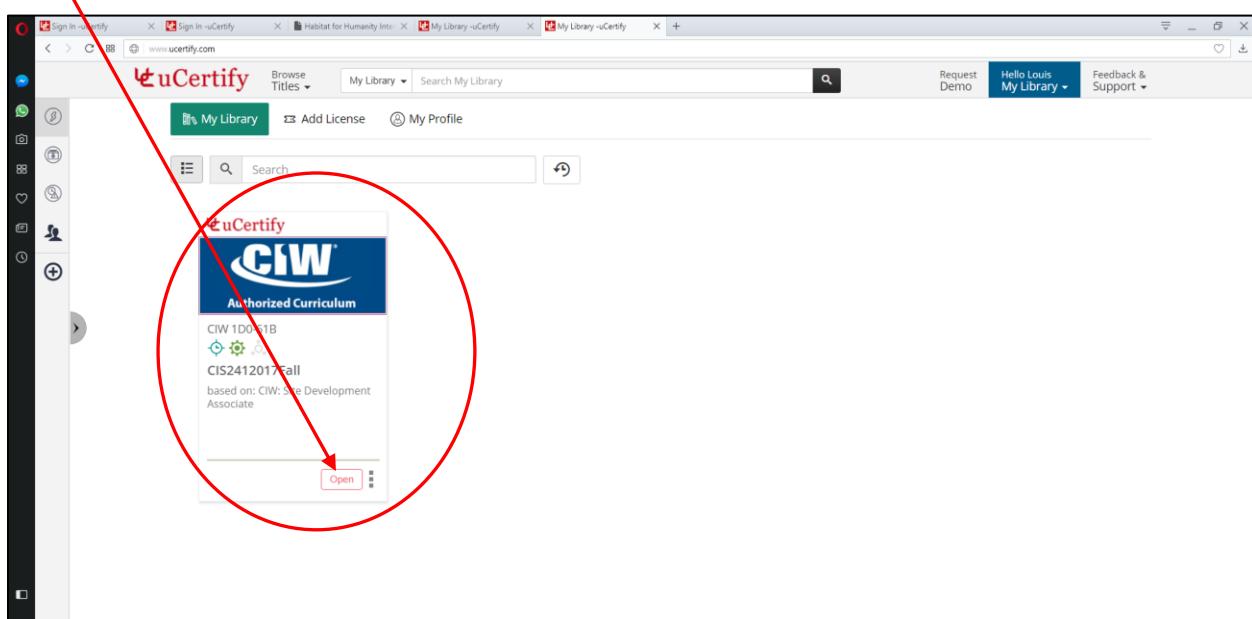
Login to ciw.certify.com.



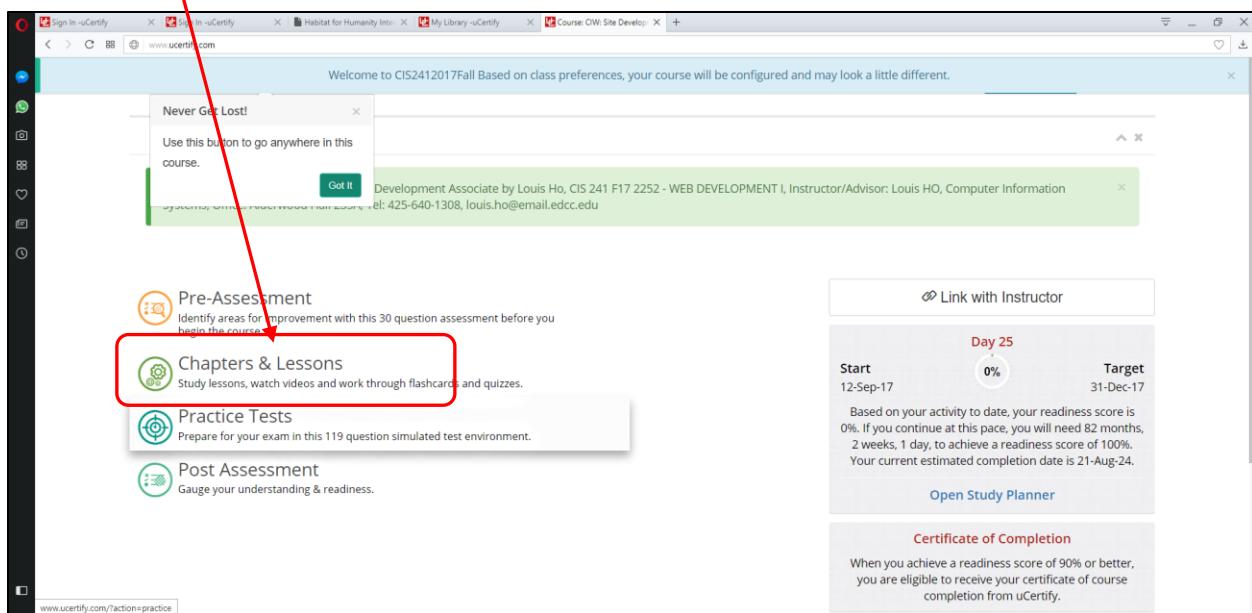
Click My Library.



Open the CIW Site Development Associate curriculum.



Open Chapters & Lessons.



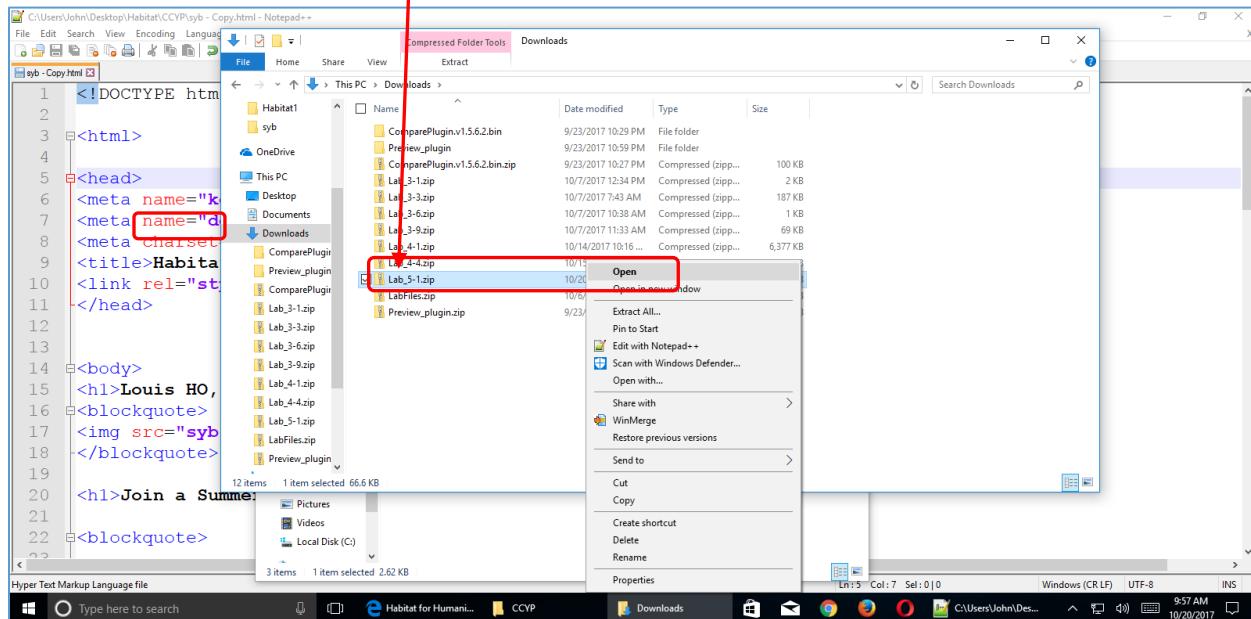
Open Lesson 5 HTML tables.

The screenshot shows the uCertify interface. At the top, there's a navigation bar with tabs like 'My Library', 'Chapter & Lessons : CIS24', 'Node.js URL Module', and 'Ore International 6932 84'. On the right, it says 'Hello Louis' and 'My Library'. Below the navigation, there's a sidebar with 'Web Design Issues', 'Optional Lab', and 'Lesson Summary'. A main content area is titled '4 Hyperlinks'. Under this, there's a list of topics: 'Introduction to Hyperlinks', 'The Anchor Element', 'Creating Local Hyperlinks' (which is highlighted with a red oval), 'Creating External Hyperlinks', 'Using Images as Hyperlinks', 'Creating Internal Links', and 'Managing Hyperlinks'. At the bottom right of the content area, there are 'Cards' and 'Quizzes' icons.

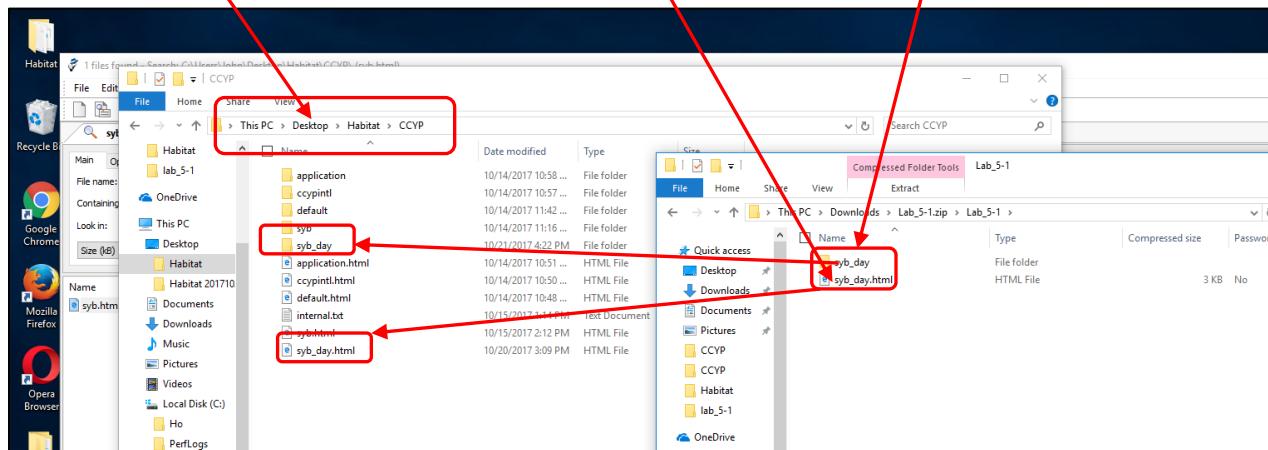
Scroll down to **Lab 5-1: Creating HTML tables to organize content** and click **Download**

This screenshot shows the 'Lab 5-1: Creating HTML tables to organize content' section. At the top, there's a note about element structure and a table caption. Below that, there are two download sections: one for 'Finished Files' and another for 'Files for Lab 5-1'. Both sections have a 'Download' button. A red arrow points from the 'Download' button in the second section to a red oval around it. Another red arrow points from the red oval to a callout box labeled 'Lab 5-1: Creating HTML tables to organize content'. This callout box has a red border and contains the 'OBJECTIVE 2.1.5: HTML tables' section. This section includes a note about converting existing content into tabular format and two steps: 1. Copying files to the 'Habitat(CCYP)' directory, and 2. Loading the file into a browser. An image of a browser window showing a website for 'summer youth blitz' is included. At the bottom of the page, there are navigation links for 'Content list', 'Quiz', 'Previous', 'Next', and 'Settings'.

Open the downloaded **Lab_5-1.zip** file.



1. From **Lesson05\Lab_5-1**, copy the file **syb_day.html** and the **syb_day** folder to the **Habitat\CCYP** directory. The **syb_day.html** file should reside on the same level as **syb.html**, **default.html** and other Web page files.



2. Load the file **syb_day.html** into your browser. It should resemble Figure 5-2. Notice that the content is not presented in tabular format.

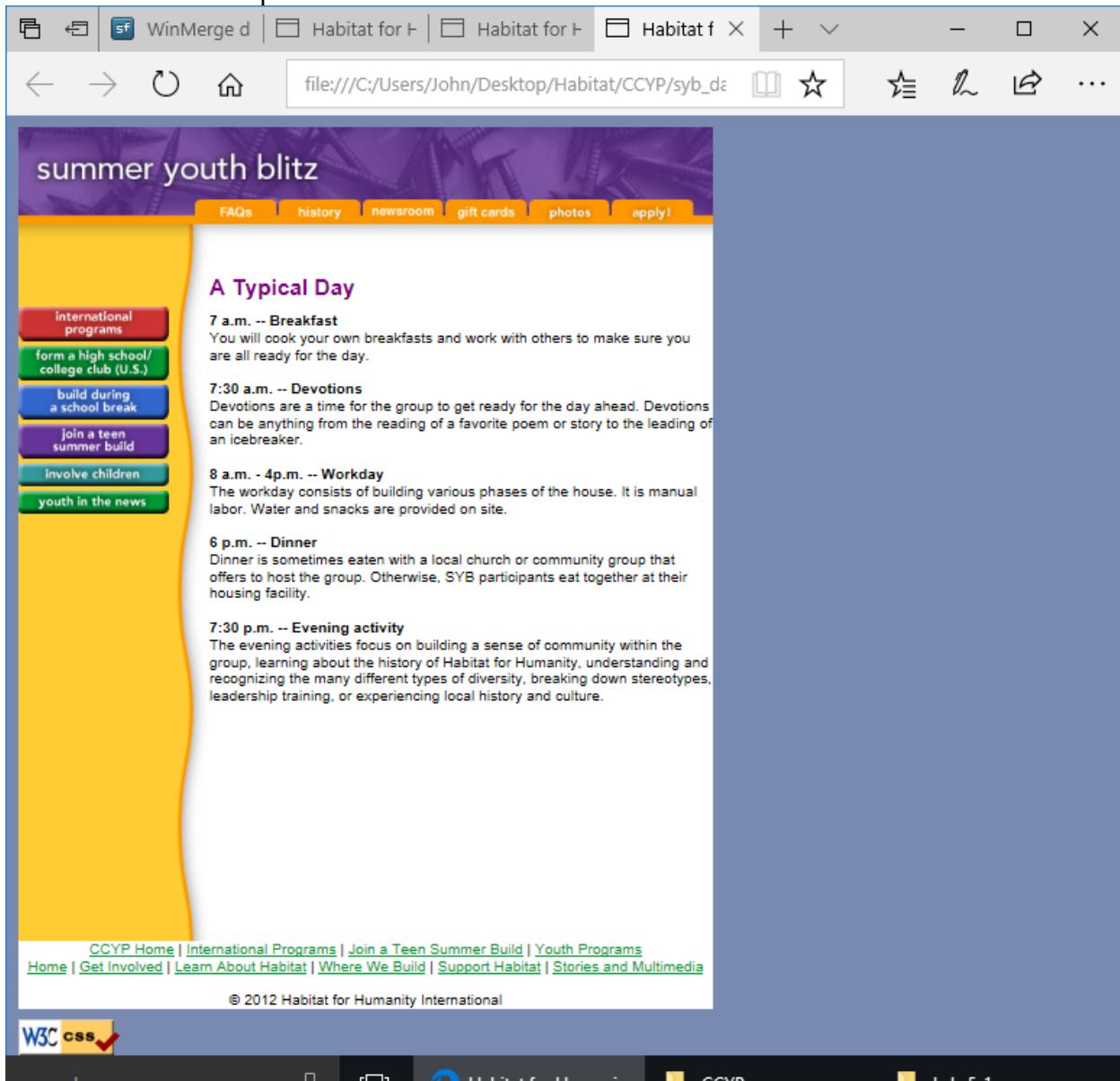
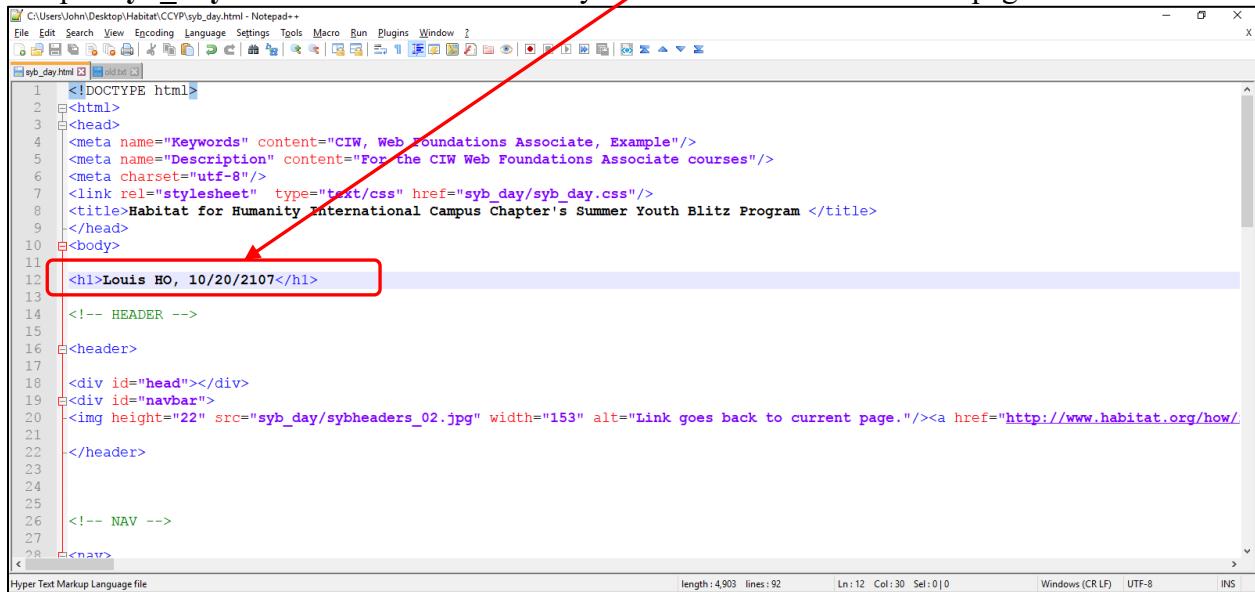


Figure 5-2: Page *syb_day.html* presented without table

Screenshot 6: Click **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.

3. Open syb_day.html in a text editor. Add your name and date to the webpage.



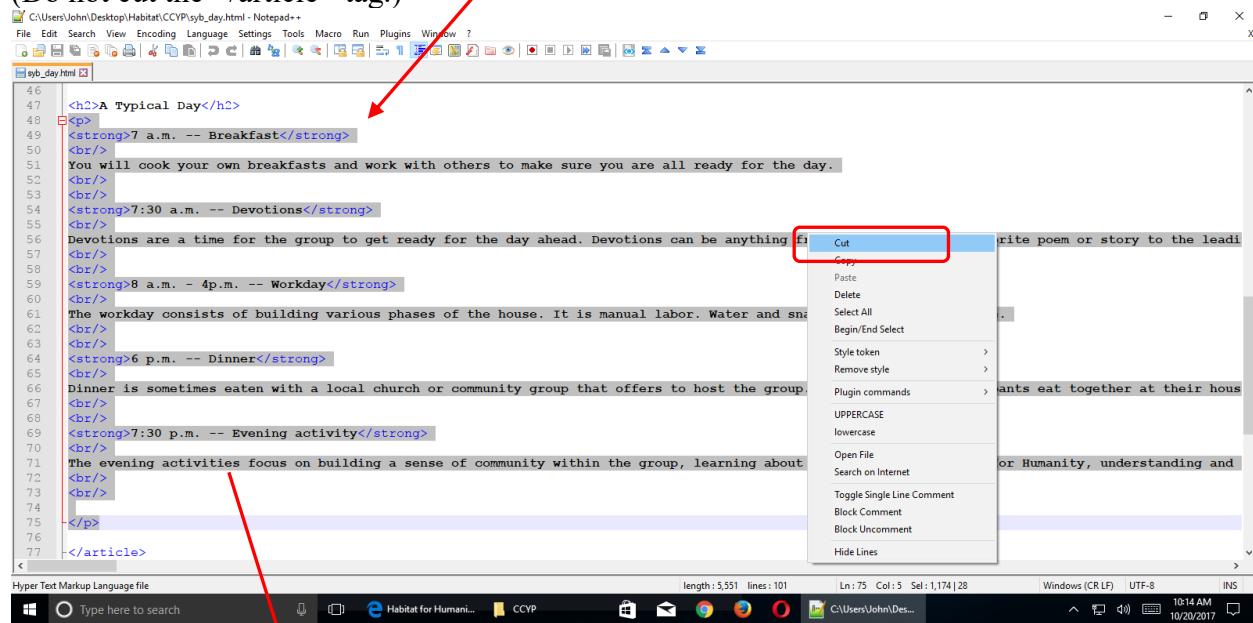
```
C:\Users\John\Desktop\Habitat\CCY\syb_day.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
syb_day.html [syb_day.html]
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta name="Keywords" content="CIW, Web Foundations Associate, Example"/>
5     <meta name="Description" content="For the CIW Web Foundations Associate courses"/>
6     <meta charset="utf-8"/>
7     <link rel="stylesheet" type="text/css" href="syb_day/syb_day.css"/>
8     <title>Habitat for Humanity International Campus Chapter's Summer Youth Blitz Program </title>
9   </head>
10  <body>
11    <h1>Louis HO, 10/20/2107</h1>
12    <!-- HEADER -->
13
14    <div id="head"></div>
15
16    <div id="navbar">
17      <a href="http://www.habitat.org/how/
18
19    </div>
20
21    <!-- NAV -->
22
23
24
25
26
27
28  </nav>
```

Hyper Text Markup Language file length: 4,903 lines: 92 Ln: 12 Col: 30 Sel: 0|0 Windows (CR LF) UTF-8 INS

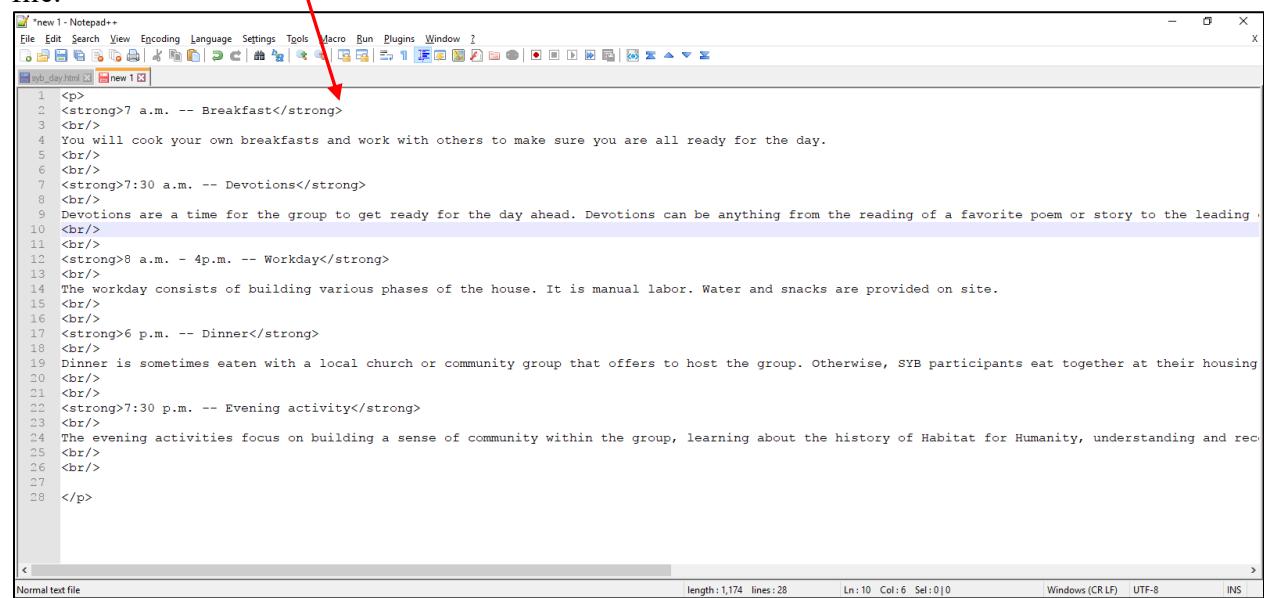
4. Search for the following line of code:

<h2>A Typical Day</h2>

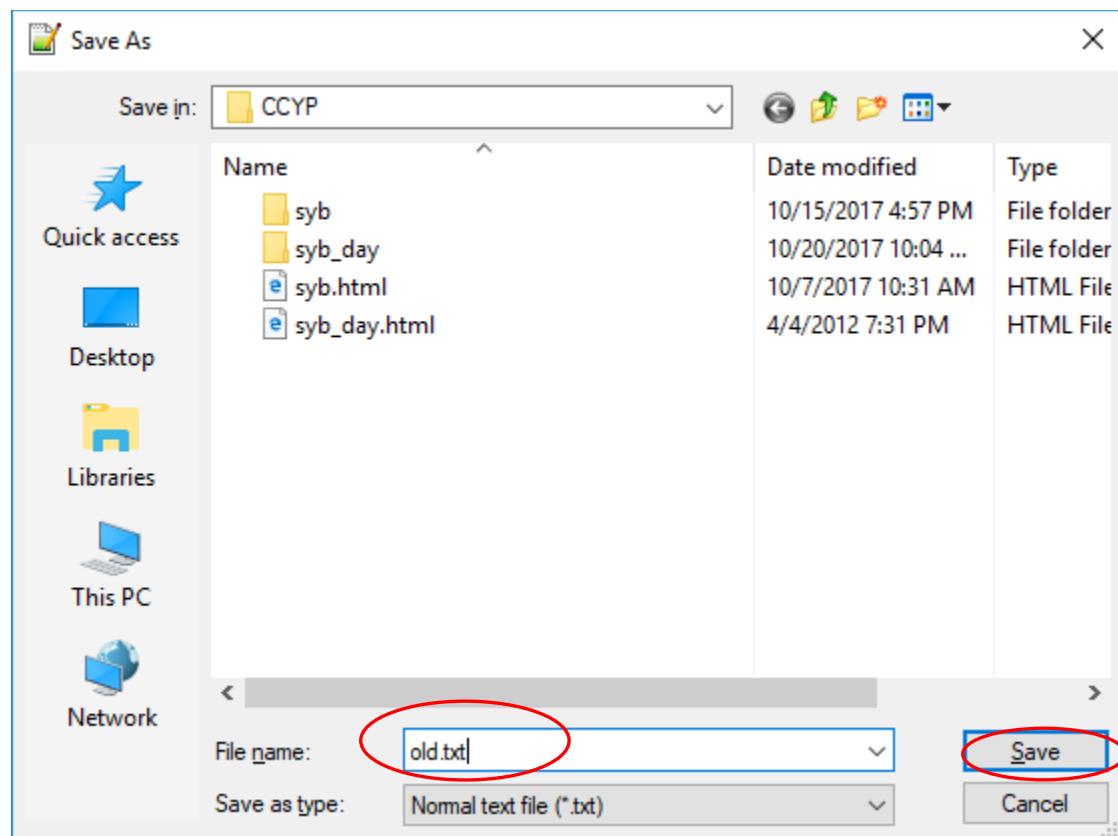
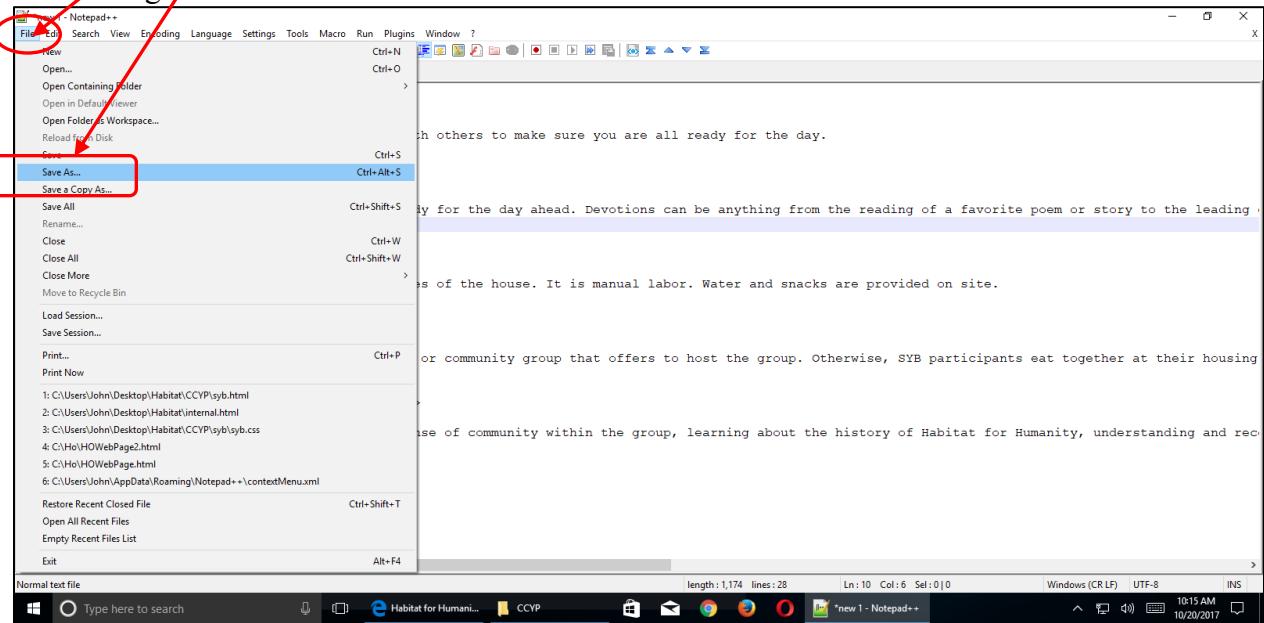
5. Use the **Edit | Cut command (or **CTRL+X**) to cut all content that refers to the "*typical day*," including all text and markup tags. Start by cutting the <p> tag located below the line specified in the previous step, continue through the text that ends with "*experiencing local history and culture*," and also include the
 tags and the </p> tag just above the closing </article> tag. (Do not cut the </article> tag.)**



6. Open a second instance of Notepad (or Notepad++), and paste the text you just cut into a new file.



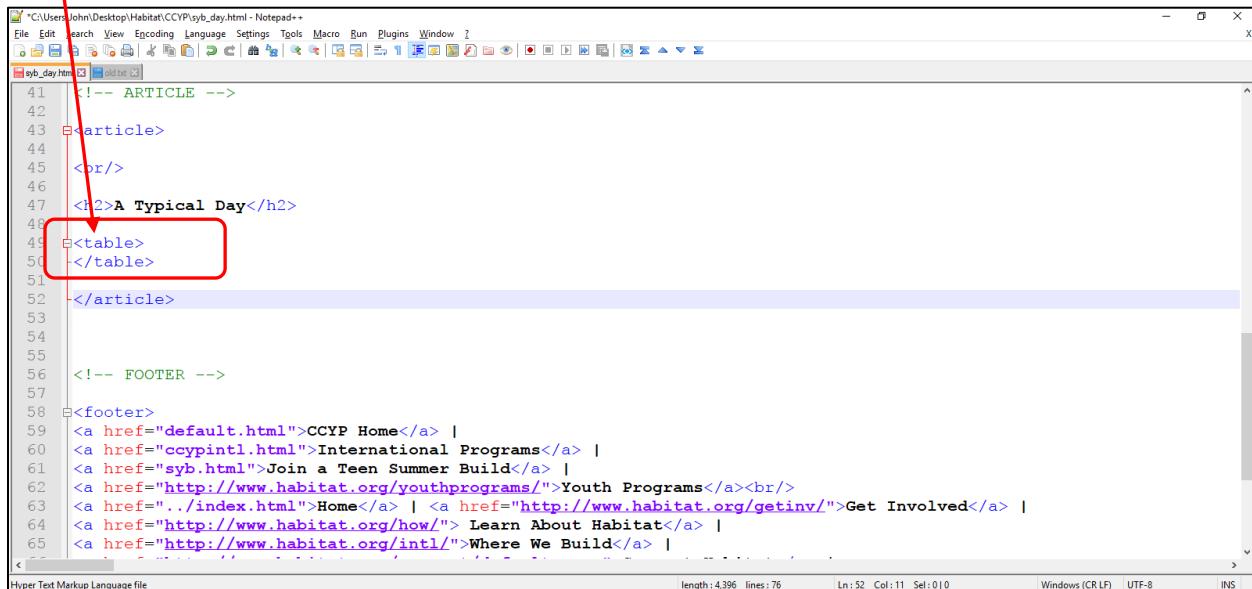
7. Save this new file as *old.txt*. In later steps in this lab, you will copy the content (but not the markup) from this text file into the new table you create in *syb_day.html*. For the purpose of learning tables, it is best to begin by creating the table elements first, then adding content to the table later.



8. Minimize *old.txt*.

9. Maximize **syb_day.html**. Add opening and closing tags to create a table where the text once existed:

```
<table>
</table>
```



A screenshot of Notepad++ showing the file "syb_day.html". The code editor displays the following HTML structure:

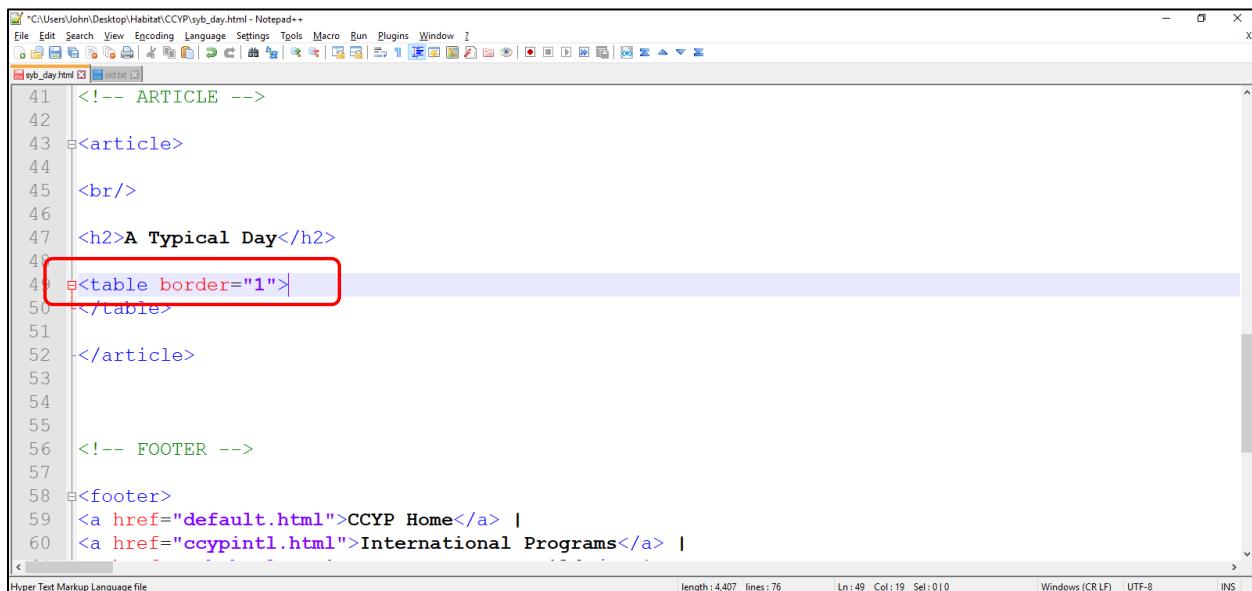
```
<!-- ARTICLE -->
<article>
<br/>
<h2>A Typical Day</h2>
<table>
</table>
</article>

<!-- FOOTER -->
<footer>
<a href="default.html">CCYP Home</a> |
<a href="ccypintl.html">International Programs</a> |
<a href="syb.html">Join a Teen Summer Build</a> |
<a href="http://www.habitat.org/youthprograms/">Youth Programs</a><br/>
<a href=".index.html">Home</a> | <a href="http://www.habitat.org/getinv/">Get Involved</a> |
<a href="http://www.habitat.org/how/"> Learn About Habitat</a> |
<a href="http://www.habitat.org/intl/">Where We Build</a> |
```

The line containing the newly added table tag, "`<table>`", is highlighted with a red rectangle.

10. In **syb_day.html**, create some white space by entering several returns between the opening and closing `<table>` tags you just entered.

11. By default, tables do not render with a visible border. Give the table a border by adding the `border="1"` attribute and value to the opening `<table>` tag. You now will be able to see your work better.



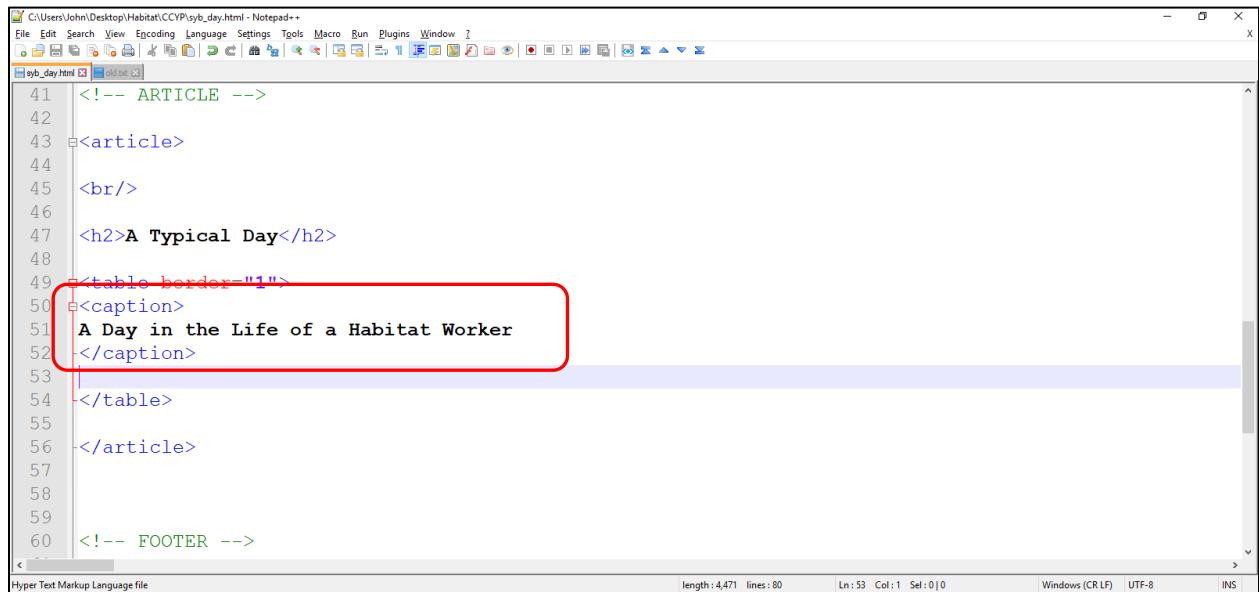
A screenshot of Notepad++ showing the file "syb_day.html". The code editor displays the following HTML structure:

```
<!-- ARTICLE -->
<article>
<br/>
<h2>A Typical Day</h2>
<table border="1">
</table>
</article>

<!-- FOOTER -->
<footer>
<a href="default.html">CCYP Home</a> |
<a href="ccypintl.html">International Programs</a> |
```

The line containing the table tag, "`<table border="1">`", is highlighted with a red rectangle.

12. Create a table caption that reads *A Day in the Life of a Habitat Worker*.



```
C:\Users\John\Desktop\Habitat\CCVP\syb_day.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
syb_day.html [3] old file
41 <!-- ARTICLE -->
42
43 <article>
44
45 <br/>
46
47 <h2>A Typical Day</h2>
48
49 <table border="1">
50   <caption>
51     A Day in the Life of a Habitat Worker
52   </caption>
53
54 </table>
55
56 </article>
57
58
59
60 <!-- FOOTER -->
Length: 4,471 Lines: 80 Ln: 53 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
```

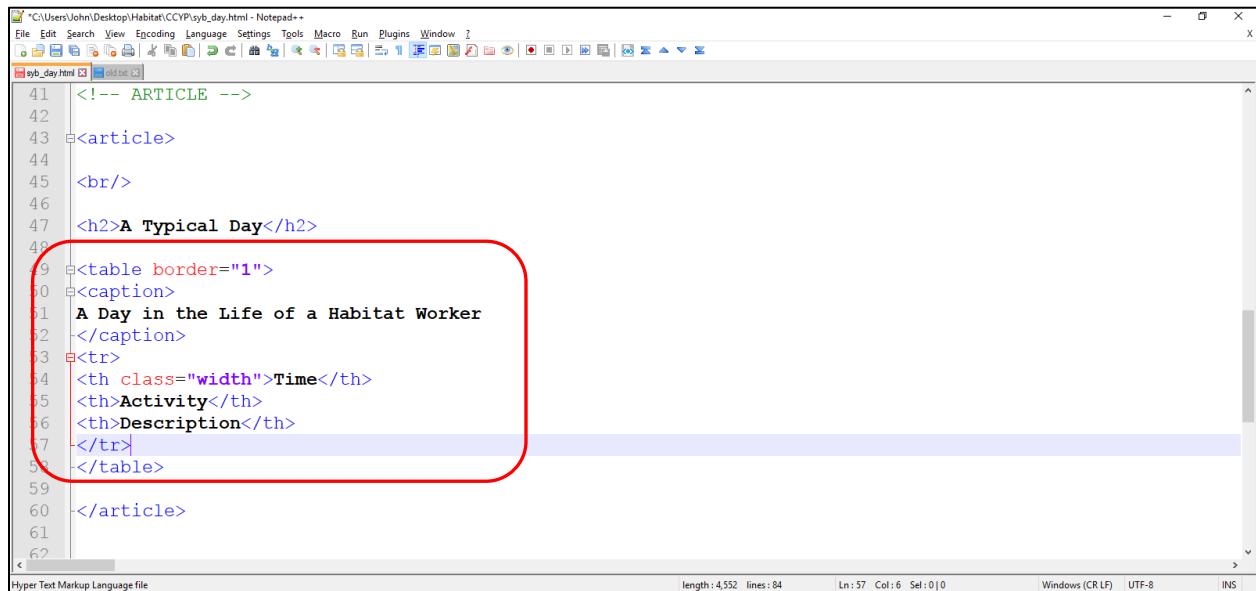
13. Consider the content on the original page. As you format the content into a table, you will need to label each column heading with the type of information that column will contain. What categories of information does the existing content provide? Answer the following question in the space provided: How many columns will your table need, and what will each column be titled?

14. You are now ready to create a header row for the table. Between the opening and closing <table> tags, insert a <tr> tag. Remember to close the table row with a </tr> tag, and use good coding practice by placing each new element on its own line.

15. Now, insert the necessary number of <th> tags between the <tr> </tr> tags to create the table header cells. When you are done, you should have three <th> tags, all properly closed with </th>.

16. The table header row will require the most tag information. When you are finished, your code should appear as follows:

```
<table border="1">
<caption>
A Day in the Life of a Habitat Worker
</caption>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Description</th>
</tr>
</table>
```



The screenshot shows a Notepad++ window with the file 'syb_day.html' open. The code is as follows:

```
41 <!-- ARTICLE -->
42
43 <article>
44
45 <br/>
46
47 <h2>A Typical Day</h2>
48
49 <table border="1">
50 <caption>
51 A Day in the Life of a Habitat Worker
52 </caption>
53 <tr>
54 <th class="width">Time</th>
55 <th>Activity</th>
56 <th>Description</th>
57 </tr>
58 </table>
59
60 </article>
61
62
```

A red box highlights the table header code from line 49 to 57.

17. Add the next row to your table. Use the <tr> </tr> tags again, but instead of using three sets of <th> tags within the row, use three sets of <td> tags to create the cells because this row is not a table header.

18. Within the <td> tags, enter the following content from old.txt:

7 a.m.

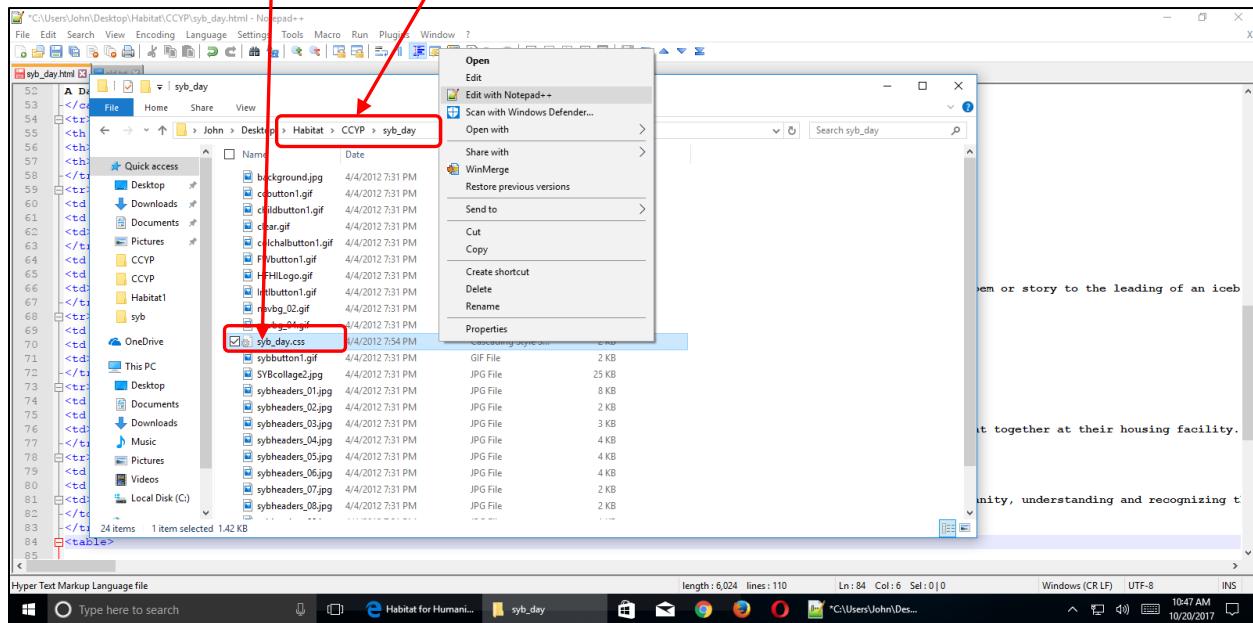
Breakfast

You will cook your own breakfasts and work with others to make sure you are all ready for the day.

19. The next task involves centering text in table data. Because not all table data will be centered, a class must be created in CSS. The class will then be specified in the HTML document. To create the class, open **syb_day/syb_day.css**.

20. In the **syb_day.css** file (in the **Habitat > CCYP > syb_day** folder), add the following rule:

```
td.center  
{  
text-align:center;  
}
```



A screenshot of Notepad++ showing the 'syb_day.css' file. The code includes a style for a footer and a class for table cells. A red circle highlights the 'td.center' rule, which contains the 'text-align:center;' declaration. The code is as follows:

```
width:165px;  
background:#fc3 url(navbg_04.gif) repeat-y top right;  
height:602px;  
}  
  
footer  
{  
clear:both;  
width:600px;  
display:block;  
text-align:center;  
font-family:Arial, Helvetica, Geneva, Swiss, sans-serif;  
font-size:80%;  
padding:0;  
margin-top:0;  
background-color:#ffff;  
}  
  
td.center  
{  
text-align:center;  
}
```

21. Add the *center* class to center the content that appears in the first two cells you specify with <td> tags. When you are finished, your code should appear as follows:

```
<tr>
<td class="center">7 a.m.</td>
<td class="center">Breakfast</td>
<td>You will cook your own breakfasts and work with others to
make sure you are all ready for the day.</td>
</tr>
```

22. Insert the following text, with <p> </p> tags, just above the table and just below the phrase *A Typical Day*:

```
<p>Why is our program so popular? Because it gives you the
opportunity to help others. Below are some examples of
activities.</p>
```

```
C:\Users\John\Desktop\Habitat\CCVP\typical_day.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window 2
syb_day.htm 1 old.htm
44
45
46
47 <br/>
48 <h2>A Typical Day</h2>
49 <p>Why is our program so popular? Because it gives you the opportunity to help
50 others. Below are some examples of activities.</p>
51 <table border="1">
52 <caption>
53 A Day in the Life of a Habitat Worker
54 </caption>
55 <tr>
56 <th class="width">Time</th>
57 <th>Activity</th>
58 <th>Description</th>
59 </tr>
60 <tr>
61 <td class="center">7 a.m.</td>
62 <td class="center">Breakfast</td>
63 <td>You will cook your own breakfasts and work with others to make sure you
are all ready for the day.</td>
64
65
```

Screenshot 7: Click **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.

23. Save the file, then view your page in a browser. You should see a table caption introducing a table with three columns, a header row and one row of information, as shown in Figure 5-3.

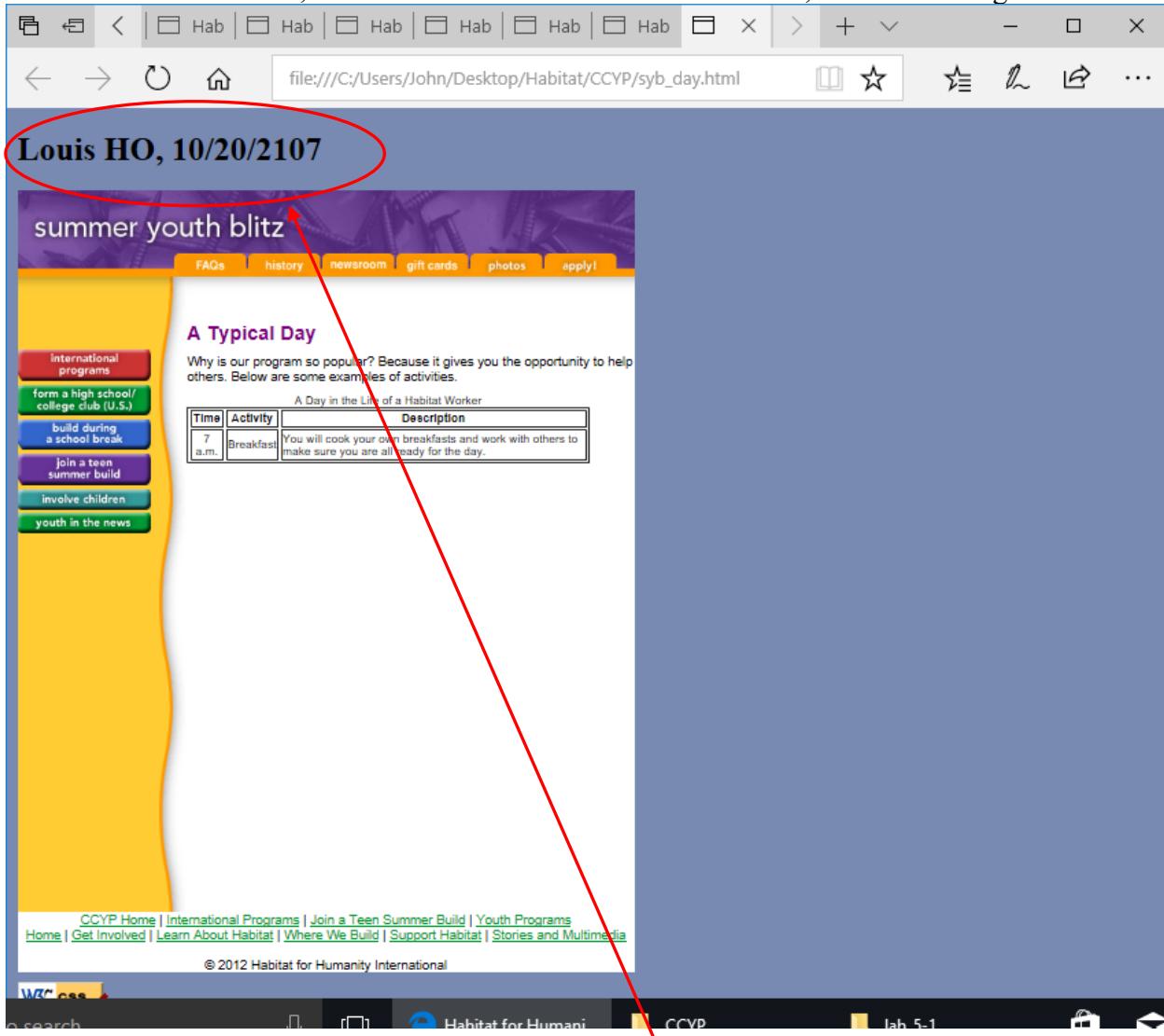


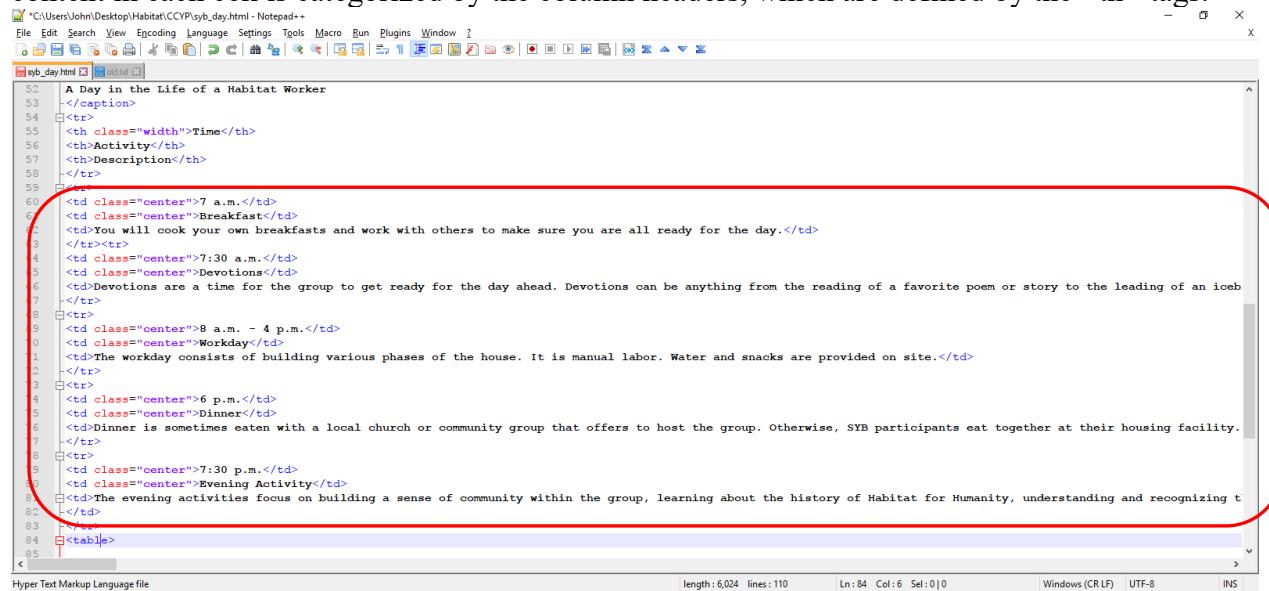
Figure 5-3: Page *syb_day.html* with content in tabular format

Screenshot 8: Click **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. Remember to show your name and date.

24. If your table does not render correctly, review your code and make any necessary changes. When the page renders correctly in the browser, validate your code at <http://validator.w3.org>. The file is short at this point so errors will be easier to locate and correct.

25. Add four more rows to your table, so that you have five rows containing the content you cut from the page. (This content is now in the old.txt file you created, so copy it from there.) Center the content that appears in the first two cells you specify with <td> tags in each row.

26. Notice that the <tr> tags add rows, but that the <td> tags add cells to contain content. The content in each cell is categorized by the column headers, which are defined by the <th> tags.

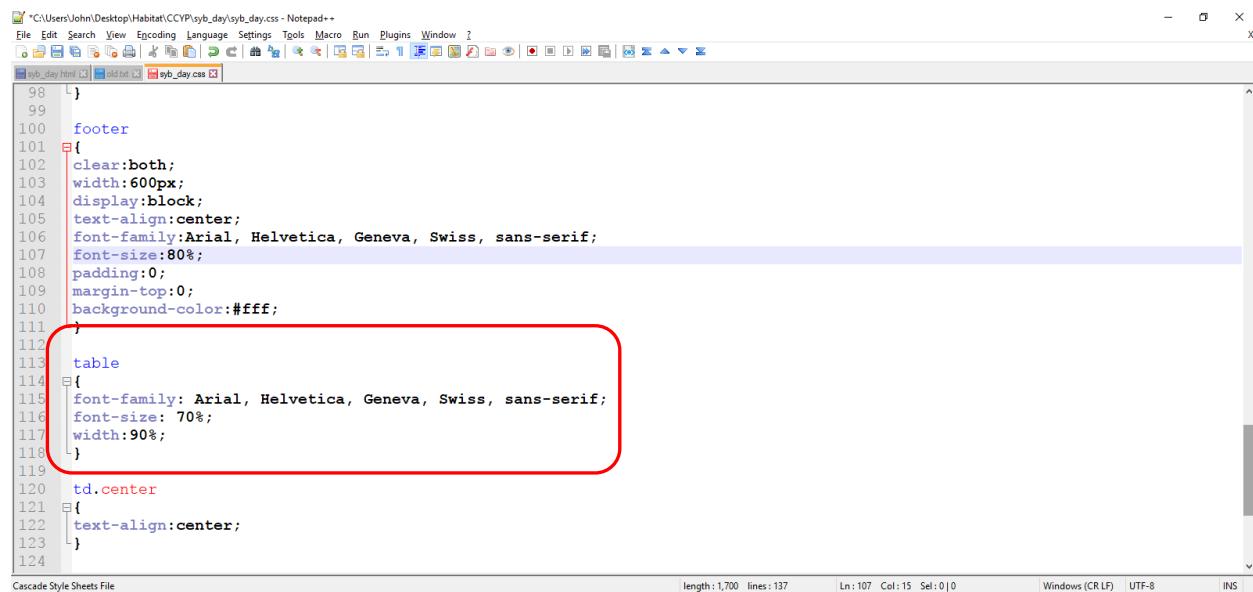


```
C:\Users\John\Desktop\Habitat\CCVP\syb_day.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window  
syb_day.html [syb_day.html]  
A Day in the Life of a Habitat Worker  
</caption>  
<tr>  
<th class="width">Time</th>  
<th>Activity</th>  
<th>Description</th>  
</tr>  
<tr>  
<td class="center">7 a.m.</td>  
<td class="center">Breakfast</td>  
<td>You will cook your own breakfasts and work with others to make sure you are all ready for the day.</td>  
</tr><tr>  
<td class="center">7:30 a.m.</td>  
<td class="center">Devotions</td>  
<td>Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite poem or story to the leading of an icebreaker.  
</tr>  
<tr>  
<td class="center">8 a.m. - 4 p.m.</td>  
<td class="center">Workday</td>  
<td>The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.</td>  
</tr>  
<tr>  
<td class="center">6 p.m.</td>  
<td class="center">Dinner</td>  
<td>Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants eat together at their housing facility.  
</tr>  
<tr>  
<td class="center">7:30 p.m.</td>  
<td class="center">Evening Activity</td>  
<td>The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Humanity, understanding and recognizing the needs of the families we serve.  
</td>  
</tr>  
</table>
```

Screenshot 9: Click **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. Remember to show your name and date.

27. To ensure the table font matches the document font, add the following code to the **syb_day.css** file. Tables often look better when the table text is slightly smaller than the surrounding text, so the font size will be adjusted from 80% to 70%. The width of the table will be set to 90% of the section width so that a margin appears:

```
table
{
font-family: Arial, Helvetica, Geneva, Swiss, sans-serif;
font-size: 70%;
width:90%;
}
```



The screenshot shows the Notepad++ interface with the file **syb_day.css** open. The code is as follows:

```
98 }
99
100 footer
101 {
102   clear:both;
103   width:600px;
104   display:block;
105   text-align:center;
106   font-family:Arial, Helvetica, Geneva, Swiss, sans-serif;
107   font-size:80%;
108   padding:0;
109   margin-top:0;
110   background-color:#ffff;
111 }
112
113 table
114 {
115   font-family: Arial, Helvetica, Geneva, Swiss, sans-serif;
116   font-size: 70%;
117   width:90%;
118 }
119
120 td.center
121 {
122   text-align:center;
123 }
```

A red box highlights the entire block of code starting at line 113, which defines the **table** class.

28. To center the table in the Web page section, a *class* must be created in **syb_day.css**, similar to centering an image. The *margin-left* and *margin-right* properties are set to *auto*. This automatically creates equal spacing on both sides of the object, whether it is a table or an image.

```
table.center
{
margin-left: auto;
margin-right: auto;
}
```

29. Add the center *class* to the **syb_day.html** file by adding the following code in bold:

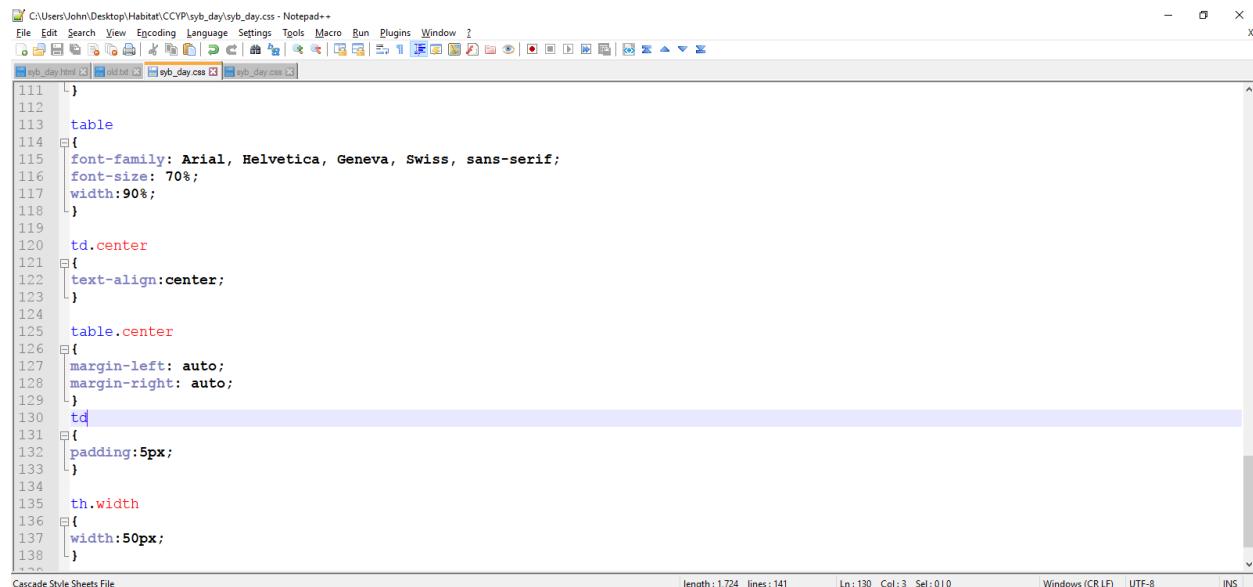
```
<table class="center" border="1">
```

30. To improve readability, add five pixels of padding to all table data. This will create white space around the data. Enter the following code in **syb_day.css**:

```
td  
{  
padding:5px;  
}
```

31. The last adjustment will be the width of the "Time" column. The table would look better if the text "a.m." and "p.m." were on the same line as the time (e.g., 7 a.m.). The width can be adjusted by adding a *class* that specifies the header's width in pixels. Add the following code to **syb_day.css**:

```
th.width  
{  
width:50px;  
}
```



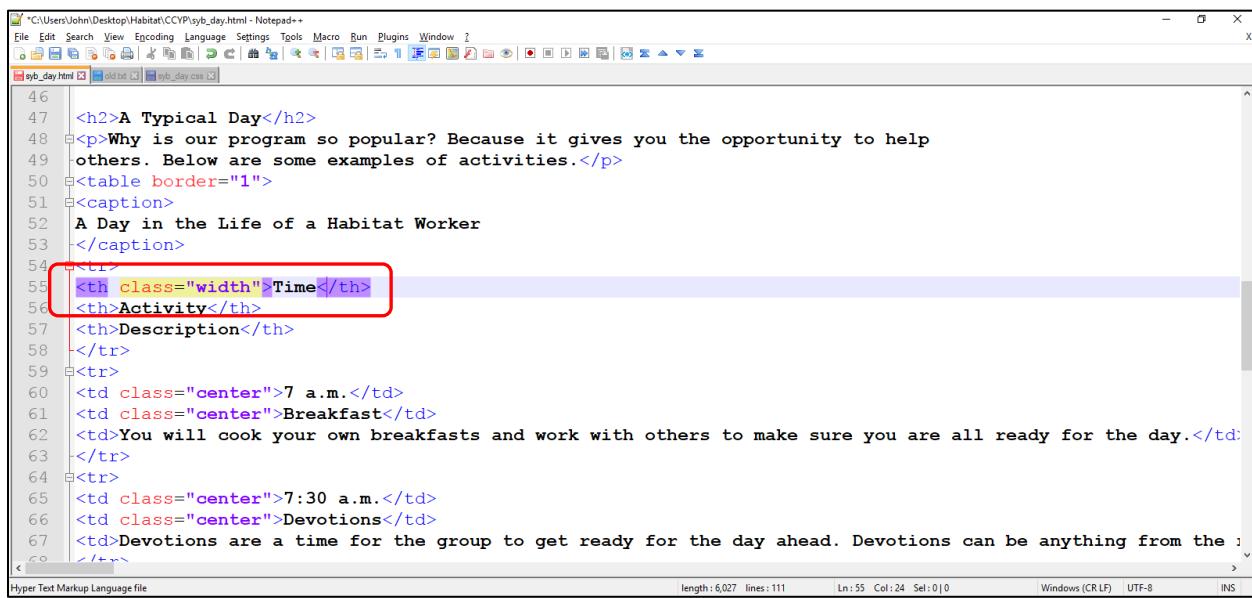
The screenshot shows a Notepad+ window with the file 'syb_day.css' open. The code is as follows:

```
111 }  
112  
113 table  
114 {  
115 font-family: Arial, Helvetica, Geneva, Swiss, sans-serif;  
116 font-size: 70%;  
117 width:90%;  
118 }  
119  
120 td.center  
121 {  
122 text-align:center;  
123 }  
124  
125 table.center  
126 {  
127 margin-left: auto;  
128 margin-right: auto;  
129 }  
130 td  
131 {  
132 padding:5px;  
133 }  
134  
135 th.width  
136 {  
137 width:50px;  
138 }
```

The code defines a global style for the table, a class for centered table cells, a class for centered tables, and two specific styles for the 'td' and 'th' elements.

32. Add the *class* to the **syb_day.html file:**

```
<th class="width"
```



```
46
47 <h2>A Typical Day</h2>
48 <p>Why is our program so popular? Because it gives you the opportunity to help
49 others. Below are some examples of activities.</p>
50 <table border="1">
51 <caption>
52 A Day in the Life of a Habitat Worker
53 </caption>
54 <tr>
55 <th class="width"
```

33. When you are finished, save **syb_day.html** and **syb_day.css** and load them into a browser. If your table does not render as expected, review your code. Edit the code as necessary until it renders as shown in Figure 5-4.

The screenshot shows a website for 'summer youth blitz'. At the top, there's a navigation bar with links for 'FAQs', 'history', 'newsroom', 'gift cards', 'photos', and 'apply!'. On the left, there's a sidebar with several buttons: 'international programs', 'form a high school/college club (U.S.)', 'build during a school break', 'join a teen summer build', 'involve children', and 'youth in the news'. The main content area has a purple header 'summer youth blitz'. Below it, a section titled 'A Typical Day' contains a paragraph about why the program is popular and a table titled 'A Day in the Life of a Habitat Worker'. The table has two columns: 'Time' and 'Activity', and five rows. The data is as follows:

Time	Activity	Description
7 a.m.	Breakfast	You will cook your own breakfasts and work with others to make sure you are all ready for the day.
7:30 a.m.	Devotions	Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite poem or story to the leading of an icebreaker.
8 a.m. - 4 p.m.	Workday	The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.
6 p.m.	Dinner	Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants eat together at their housing facility.
7:30 p.m.	Evening Activity	The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Humanity, understanding and recognizing the many different types of diversity, breaking down stereotypes, leadership training, or experiencing local history and culture.

At the bottom of the page, there are links to 'CCYP Home', 'International Programs', 'Join a Teen Summer Build', 'Youth Programs Home', 'Get Involved', 'Learn About Habitat', 'Where We Build', 'Support Habitat', and 'Stories and Multimedia'. A copyright notice at the very bottom says '© 2012 Habitat for Humanity International'.

Figure 5-4: Page **syb_day.html** with table

Screenshot 10: Click **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. Remember to show your name and date.

34. Validate your code and resolve any issues. You will edit this table further in a later lab.

In this lab, you converted existing content into tabular format by creating an HTML table.

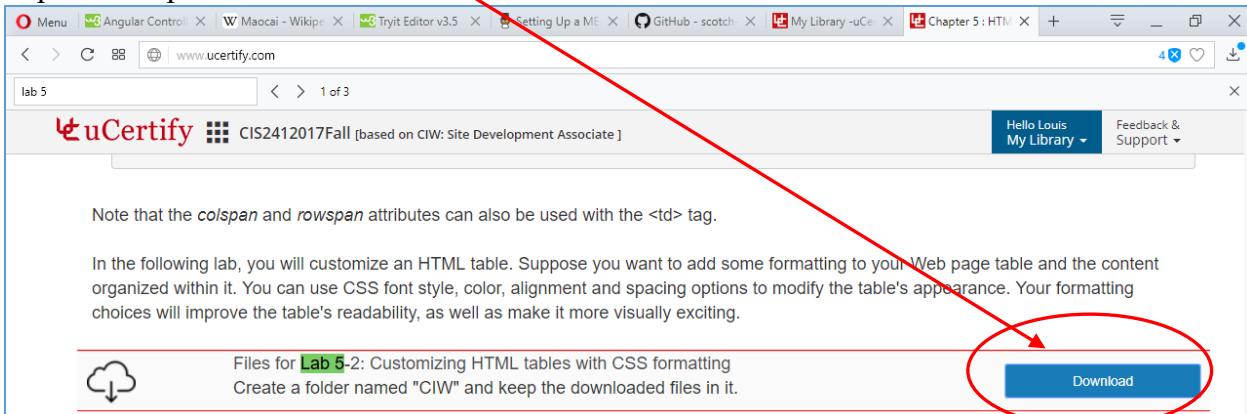
Step 2. Week 6 – Lesson 5 HTML Tables Assignment

Lab 5-2: Customizing HTML tables with CSS formatting

Lab 5-2: Customizing HTML tables with CSS formatting

In this lab, you will modify table data with formatting options to make it more aesthetically pleasing.

1. Open **syb_day.html** and **syb_day/syb_day.css** in an editor. If necessary, you can also copy them from your student Lab 5-2 folder and paste them in your Habitat/CCYP folder, similar to step 1 of the previous lab.



The screenshot shows a web browser window with multiple tabs open at the top. The main content area displays a uCertify lab page for CIS241 2017 Fall. A red arrow points from the text above to the 'Download' button, which is highlighted with a red oval. Another red arrow points from the 'Download' button to the lab content below.

Note that the `colspan` and `rowspan` attributes can also be used with the `<td>` tag.

In the following lab, you will customize an HTML table. Suppose you want to add some formatting to your Web page table and the content organized within it. You can use CSS font style, color, alignment and spacing options to modify the table's appearance. Your formatting choices will improve the table's readability, as well as make it more visually exciting.

 Files for **Lab 5-2: Customizing HTML tables with CSS formatting**
Create a folder named "CIW" and keep the downloaded files in it.

Lab 5-2: Customizing HTML tables with CSS formatting

 **OBJECTIVE 2.1.5: HTML tables**

In this lab, you will modify table data with formatting options to make it more aesthetically pleasing.

1. Open **syb_day.html** and **syb_day/syb_day.css** in an editor. If necessary, you can also copy them from your student **Lab 5-2** folder and paste them in your Habitat/CCYP folder, similar to step 1 of the previous lab.
2. Find the table caption, which reads *A Day in the Life of a Habitat Worker*. Notice that it is in a standard font. Add the `` tag to make this caption bold.
3. Use CSS to change the first `<tr>` element so the background color of the table headers is light blue (#**6699FF**). Load the page in a browser to see how it renders, then validate your code at <http://validator.w3.org>.
4. Find the first `<th>` heading tag. Change the `width` property used in its CSS `class` to a value of "**93**". Load the page in a browser to see how it renders, then validate your code.
5. Change the `padding` attribute in the CSS table data (`td`) rule to a value of "**3**".
6. Experiment with other modifications and formatting additions to the table. For instance, add background colors to table cells and rows, change the font colors, or collapse the border so only one line appears around each cell.
7. In the HTML document, insert a blank line between the end of the table and the footer section by adding a `
` tag immediately after the closing table tag `</table>`. Load the page in a browser to see how it renders, then validate your code.
8. You have now placed all of the page's content into a table. However, the changes you made may have caused the yellow navigation (`nav`) sidebar graphic (`navbg_04.gif`) to be too short or too long for the page. Open the style sheet and find the `nav` and `article` entries.
9. Adjust the `height:` value of the `nav` and `article` entries so t

 Content list  Quiz  Previous  Next  Settings 

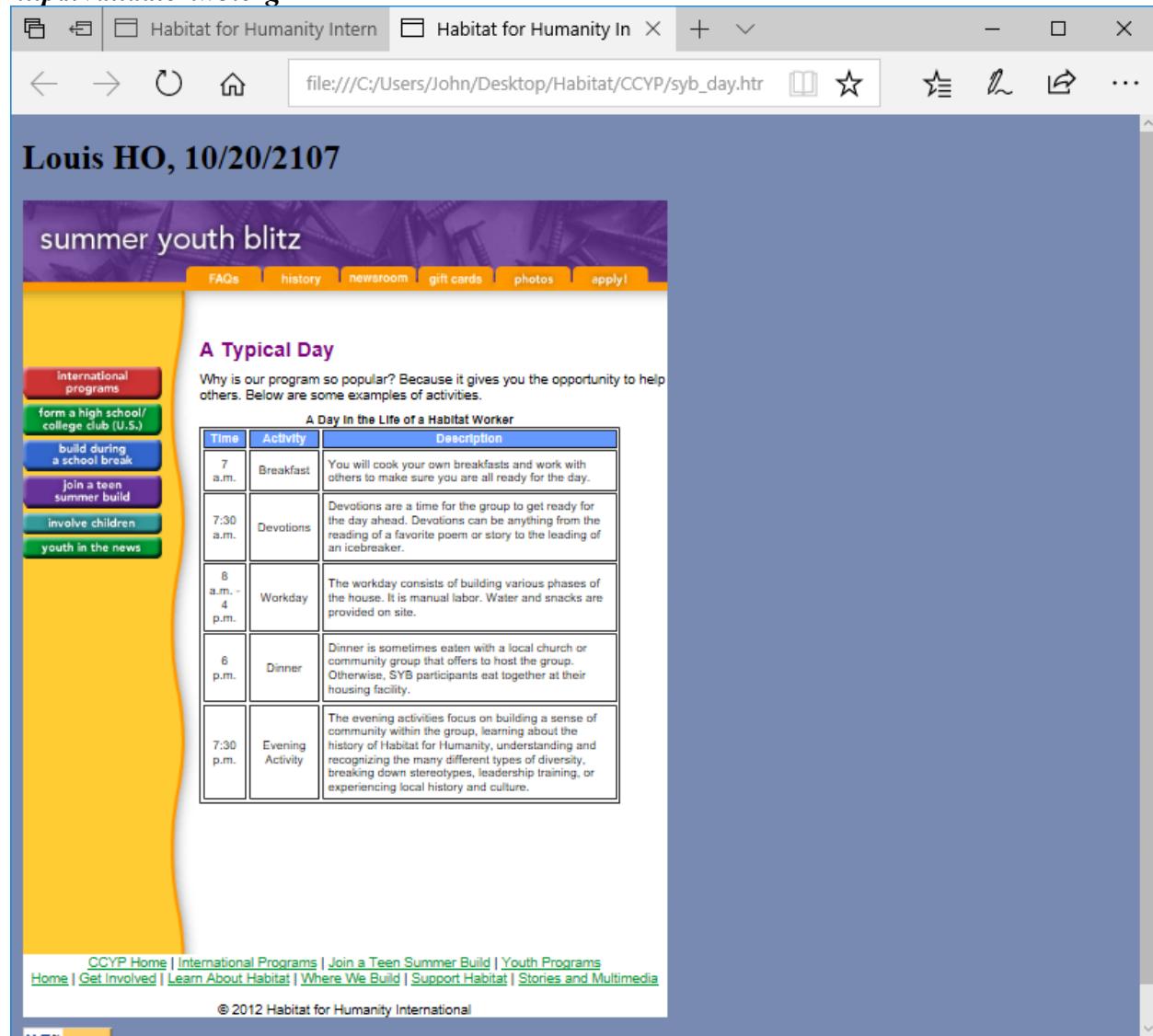
2. Find the table caption, which reads *A Day in the Life of a Habitat Worker*. Notice that it is in a standard font. Add the <**strong**> tag to make this caption bold.

```
C:\Users\John\Desktop\Habitat\CCYP\syb_day.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window 
syb_day.html syb_day.htm syb_day.css syb_day.js
46
47 <h2>A Typical Day</h2>
48 <p>Why is our program so popular? Because it gives you the opportunity to help
49 others. Below are some examples of activities.</p>
50 <table border="1">
51 <caption>
52 <strong>A Day in the Life of a Habitat Worker</strong>
53 </caption>
54 <tr>
55 <th class="width">Time</th>
56 <th>Activity</th>
57 <th>Description</th>
58 </tr>
59 <tr>
60 <td class="center">7 a.m.</td>
61 <td class="center">Breakfast</td>
62 <td>You will cook your own breakfasts and work with others to make sure you are all ready for the day.</td>
63 </tr>
64 <tr>
65 <td class="center">7:30 a.m.</td>
66 <td class="center">Devotions</td>
67 <td>Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the 
68 </tr>
69
70
71
72
73
74
75
76
77
78
79
80
81
82
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85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
99
Hyper Text Markup Language file length : 6,044 lines : 111 Ln : 52 Col : 55 Sel : 0 | 0 Windows (CR LF) UTF-8 INS
```

3. Use CSS to change the first <tr> element so the background color of the table headers is light blue ("#6699FF").

```
119
120 td.center
121 {
122     text-align:center;
123 }
124
125 table.center
126 {
127     margin-left: auto;
128     margin-right: auto;
129 }
130
131 th
132 {
133     background-color:#6699FF;
134     color:white; /* Custom formatting by author */
135 }
136
137 td
138 {
139     padding:5px;
140 }
141
```

Load the page in a browser to see how it renders, then validate your code at <http://validator.w3.org>.



Screenshot 11: Click **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. Remember to show your name and date.

4. Find the first **<th>** heading tag. Change the **width** property used in its CSS **class** to a value of "**93**". Load the page in a browser to see how it renders, then validate your code.

```
141
142 th.width
143 {
144   width:93px;
145 }
146
147
```

A screenshot of a code editor showing a portion of a CSS file. The code is as follows:

```
141
142 th.width
143 {
144   width:93px;
145 }
146
147
```

The line 144 contains the CSS rule `width:93px;`. The code editor interface includes line numbers on the left, a status bar at the bottom with file information, and a vertical scroll bar on the right.

Louis HO, 10/20/2107

summer youth blitz

A Typical Day

Why is our program so popular? Because it gives you the opportunity to help others. Below are some examples of activities.

A Day In the Life of a Habitat Worker

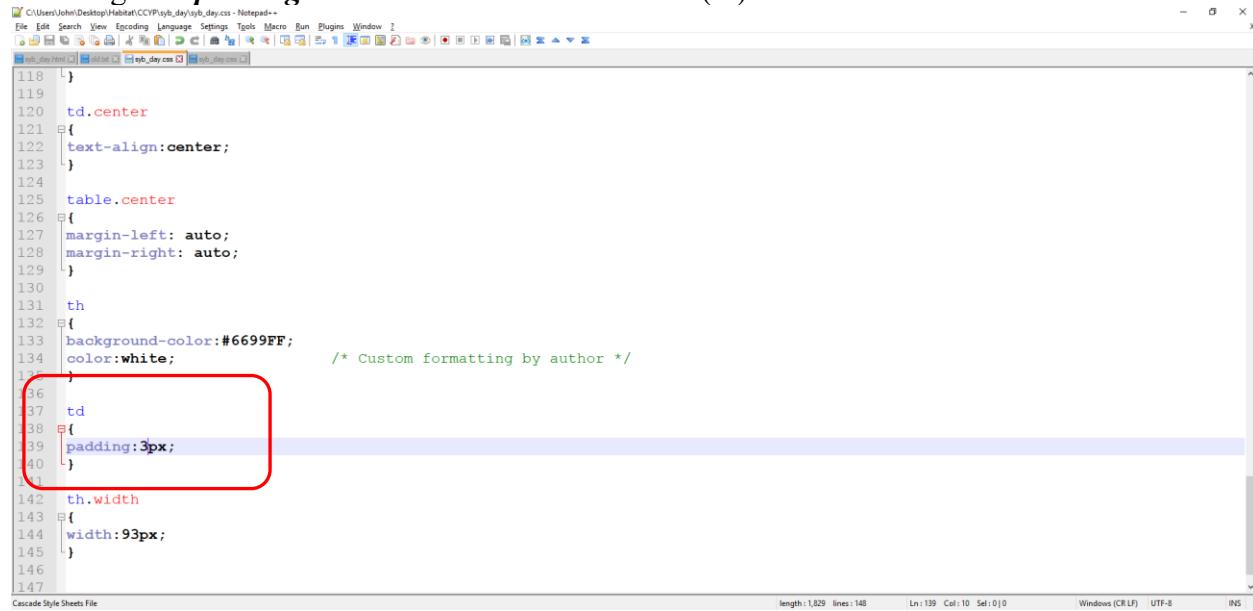
Time	Activity	Description
7 a.m.	Breakfast	You will cook your own breakfasts and work with others to make sure you are all ready for the day.
7:30 a.m.	Devotions	Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite poem or story to the leading of an icebreaker.
8 a.m. - 4 p.m.	Workday	The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.
6 p.m.	Dinner	Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants eat together at their housing facility.
7:30 p.m.	Evening Activity	The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Humanity, understanding and recognizing the many different types of diversity, breaking down stereotypes, leadership training, or experiencing local history and culture.

[CCYP Home](#) | [International Programs](#) | [Join a Teen Summer Build](#) | [Youth Programs](#)
[Home](#) | [Get Involved](#) | [Learn About Habitat](#) | [Where We Build](#) | [Support Habitat](#) | [Stories and Multimedia](#)

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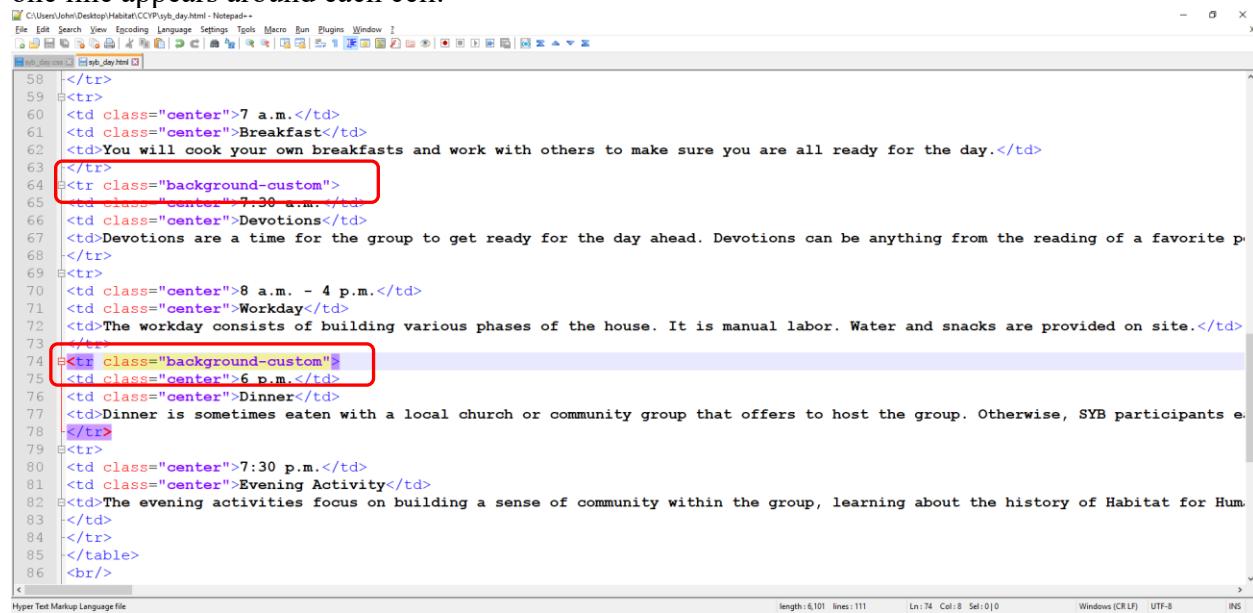
Screenshot 12: Click **PrtScreen** to take a screen shot of the result and paste it in a **Microsoft Word** document. Submit the **Microsoft Word** document at the end of the labs through **Canvas** together with the screenshots of other exercises. Remember to show your name and date.

5. Change the *padding* attribute in the CSS table data (*td*) rule to a value of "3".



```
C:\Users\John\Desktop\Habitat\CCV\syb\day\syb_day.css - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window
syb_day.css
118 }
119
120 td.center
121 {
122     text-align:center;
123 }
124
125 table.center
126 {
127     margin-left: auto;
128     margin-right: auto;
129 }
130
131 th
132 {
133     background-color:#6699FF;
134     color:white;
135         /* Custom formatting by author */
136 }
137
138 td
139 {
140     padding:3px;
141 }
142
143 th.width
144 {
145     width:93px;
146 }
147
Cascade Style Sheets File
length : 1,829 lines : 148 Ln: 139 Col: 10 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
```

6. Experiment with other modifications and formatting additions to the table. For instance, add background colors to table cells and rows, change the font colors, or collapse the border so only one line appears around each cell.



```
C:\Users\John\Desktop\Habitat\CCV\syb\day.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window
syb_day.html
58 </tr>
59
60 <tr>
61 <td class="center">7 a.m.</td>
62 <td class="center">Breakfast</td>
63 <td>You will cook your own breakfasts and work with others to make sure you are all ready for the day.</td>
64 <br>
65 <tr class="background-custom">
66 <td class="center">7:30 a.m.</td>
67 <td class="center">Devotions</td>
68 <td>Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite p
69 <br>
70 <td class="center">8 a.m. - 4 p.m.</td>
71 <td class="center">Workday</td>
72 <td>The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.</td>
73 <br>
74 <tr class="background-custom">
75 <td class="center">6 p.m.</td>
76 <td class="center">Dinner</td>
77 <td>Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants e
78 <br>
79 <tr>
80 <td class="center">7:30 p.m.</td>
81 <td class="center">Evening Activity</td>
82 <td>The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Hum
83 </td>
84 </tr>
85 </table>
86 <br/>
```

```

123 }
124
125 table.center
126 {
127   margin-left: auto;
128   margin-right: auto;
129 }
130
131 th
132 {
133   background-color:#6699FF;
134   color:white; /* Custom formatting by author */
135 }
136
137 td
138 {
139   padding:3px;
140 }
141
142 th.width
143 {
144   width:93px;
145 }
146
147 tr.background-custom /* Custom formatting by author */
148 {
149   background-color:#B2DFEE;
150 }
151
152

```

Cascade Style Sheets File length: 1,931 lines: 154 Ln: 152 Col: 1 Sel: 0|0 Windows (CR LF) UTF-8 INS

7. In the HTML document, insert a blank line between the end of the table and the footer section by adding a `
` tag immediately after the closing table tag `</table>`. Load the page in a browser to see how it renders, then validate your code.

```

64 <tr class="background-custom">
65   <td class="center">7:30 a.m.</td>
66   <td class="center">Devotions</td>
67   <td>Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a fa
68 </tr>
69 <tr>
70   <td class="center">8 a.m. - 4 p.m.</td>
71   <td class="center">Workday</td>
72   <td>The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on s:
73 </tr>
74 <tr class="background-custom">
75   <td class="center">6 p.m.</td>
76   <td class="center">Dinner</td>
77   <td>Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB partic
78 </tr>
79 <tr>
80   <td class="center">7:30 p.m.</td>
81   <td class="center">Evening Activity</td>
82 <td>The evening activities focus on building a sense of community within the group, learning about the history of Habitat
83 </td>
84 </tr>
85 </table>
86 <br/>
87 </article>
88
89

```

Hyper Text Markup Language file length: 6,101 lines: 111 Ln: 86 Col: 6 Sel: 0|0 Windows (CR LF) UTF-8 INS

8. You have now placed all of the page's content into a table. However, the changes you made may have caused the yellow navigation (*nav*) sidebar graphic (navbg_04.gif) to be too short or too long for the page. Open the style sheet and find the ***nav*** and ***article*** entries.

9. Adjust the ***height:*** value of the *nav* and *article* entries so that the yellow sidebar graphic is the same length as the table. The height values should be the same to ensure the footer is evenly spaced beneath them. Experiment with the setting until the *nav* and *article* sections look even when rendered in the browser.

```
C:\Users\John\Desktop\Habitat\CC\syb_day\syb_day.css - Notepad++  
File Edit Search View Encoding Language Settings Tools Run Plugins Window ?  
syb_day.css [syb_day.html]   
78 border:0px;  
79 height:16px;}  
80  
81 article  
82 {  
83 padding:0;  
84 margin-left:165px;  
85 width:435px;  
86 background-color:#fff;  
87 display:block;  
88 height:602px;  
89 }  
90  
91 nav  
92 {  
93 display:block;  
94 float:left;  
95 width:165px;  
96 background:#fc3 url(navbg_04.gif) repeat-y top right;  
97 height:602px;  
98 }  
99  
100 footer  
101 {  
102 clear:both;  
103 width:600px;
```

The screenshot shows the Notepad++ interface with the file 'syb_day.css' open. The code editor displays CSS rules for 'article', 'nav', and 'footer' elements. Two specific lines of code are highlighted with red boxes: line 88 ('height:602px;') for the 'article' element and line 97 ('height:602px;') for the 'nav' element. These lines define the height of the sidebar and the main content area respectively, ensuring they are of equal length. The status bar at the bottom of the window shows file statistics: length: 1,931, lines: 154, Ln: 752, Col: 1, Sel: 0 | 0, Windows (CRLF), UTF-8, and INS.

10. When you are finished, your page may resemble Figure 5-14, depending on how you experimented and customized your table.

The screenshot shows a web page with a purple header bar containing the text "summer youth blitz". Below the header is a navigation menu with links: "FAQs", "history", "newsroom", "gift cards", "photos", and "apply". To the left of the main content area is a vertical sidebar with several colored buttons: "International programs" (red), "form a high school/college club (U.S.)" (green), "build during a school break" (blue), "join a teen summer build" (purple), "involve children" (yellow), and "youth in the news" (green). The main content area features a title "A Typical Day" and a subtitle "Why is our program so popular? Because it gives you the opportunity to help others. Below are some examples of activities." Below this is a table titled "A Day in the Life of a Habitat Worker".

Time	Activity	Description
7 a.m.	Breakfast	You will cook your own breakfasts and work with others to make sure you are all ready for the day.
7:30 a.m.	Devotions	Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite poem or story to the leading of an icebreaker.
8 a.m. - 4 p.m.	Workday	The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.
6 p.m.	Dinner	Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants eat together at their housing facility.
7:30 p.m.	Evening Activity	The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Humanity, understanding and recognizing the many different types of diversity, breaking down stereotypes, leadership training, or experiencing local history and culture.

At the bottom of the page, there is a footer with links: "CCYP Home | International Programs | Join a Teen Summer Build | Youth Programs Home | Get Involved | Learn About Habitat | Where We Build | Support Habitat | Stories and Multimedia". A copyright notice "© 2012 Habitat for Humanity International" and a W3C CSS validation logo are also present.

Figure 5-14: Page *syb_day.html* with customized formatting

Screenshot 13: Click **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. Remember to show your name and date.

11. Challenge: Remove the border around the table and refresh your browser. Use the `border="1"` attribute and value in the `<table>` tag to reapply the border.

The screenshot shows a web browser window with the address bar displaying "file:///C:/Users/John/Desktop/Habitat/CCYP/syb_day.htr". The main content area shows a website for "summer youth blitz". A sidebar on the left lists various program categories. The main content features a title "A Typical Day" and a table titled "A Day in the Life of a Habitat Worker". The table has columns for Time, Activity, and Description. The rows show activities from 7 a.m. to 7:30 p.m., including Breakfast, Devotions, Workday, Dinner, and Evening Activity. The table border is removed, and the content is styled with purple headings and blue background cells for certain rows. At the bottom of the page, there is a footer with links like "CCYP Home", "International Programs", and "Join a Teen Summer Build".

Time	Activity	Description
7 a.m.	Breakfast	You will cook your own breakfasts and work with others to make sure you are all ready for the day.
7:30 a.m.	Devotions	Devotions are a time for the group to get ready for the day ahead. Devotions can be anything from the reading of a favorite poem or story to the leading of an icebreaker.
8 a.m. - 4 p.m.	Workday	The workday consists of building various phases of the house. It is manual labor. Water and snacks are provided on site.
6 p.m.	Dinner	Dinner is sometimes eaten with a local church or community group that offers to host the group. Otherwise, SYB participants eat together at their housing facility.
7:30 p.m.	Evening Activity	The evening activities focus on building a sense of community within the group, learning about the history of Habitat for Humanity, understanding and recognizing the many different types of diversity, breaking down stereotypes, leadership training, or experiencing local history and culture.

Screenshot 14: Click **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. Remember to show your name and date.

In this lab, you customized the appearance of a table and its content.