|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Lists** |  |

|  |
| --- |
| **Your Tasks** |
| * Explore Lists * Apply the type attribute to lists * Have Ms. Pluska check off the above tasks * Create a nested lists * Predict the output of code using list tags * Receive credit for the group portion of this lab |

* **Explore Lists**

So far, you've structured your content using paragraphs and headings. Another way HTML allows you to organize your code is by using lists. There are two types of lists you will explore: ordered and unordered.

An **unordered list** element has the tags <ul> </ul>. This is an abbreviation for **U**nordered **L**ist. Each item in the list is marked by a list item element <li> </li>. This is an abbreviation for **L**ist **I**tem. The list item element is a child element, which means that it goes inside of its parent element, the unordered list.

An **ordered list** element has the tags <ol> </ol>. This is an abbreviation for **O**rdered **L**ist. Each item in the list is marked by a list item element <li> </li>. This is an abbreviation for **L**ist **I**tem. The list item element is a child element, which means that it goes inside of its parent element, the ordered list.

Both unordered and ordered lists are illustrated below,

|  |  |
| --- | --- |
| **Code** | **Output** |
| <!DOCTYPE html>  <html>  <head>  </head>  <body>  <h1>  Scotcharoos  </h1>  <h2>  Yummy family treat!  </h2>  <h3>  Description  </h3>  <p>  This peanut butter treat will be something everyone will enjoy! A crunchy peanut butter bottom with a smooth chocolate and butterscotch top make for a yummy combination.  </p>  <h3>Ingredients</h3>  <ul>  <li>1 cup light corn syrup </li>  1 cup sugar  <li>1 cup peanut butter </li>  <li>6 cups Rice Krispies cereal </li>  <li>1 cup semi-sweet chocolate morsels </li>  <li>1 cup butterscotch chips</li>  </ul>    <h3> Directions </h3>  <ol>  <li> Measure out all ingredients before starting. </li>  Coat 13 x 9 x 2 inch pans with shortening.  <li>Place corn syrup and sugar into 3-quart saucepan. Cook over medium heat, stirring frequently, until sugar dissolves and mixture begins to boil. </li>  <li>Remove from heat. Stir in peanut butter. Mix well.</li>  <li>Add Rice Krispies cereal. Stir until well coated. </li>  <li>Press mixture into 13 x 9 x 2-inch pan coated with cooking spray. Set aside. </li>  <li> Melt chocolate and butterscotch chips together in a bowl in the microwave. Remove from the microwave every 30-45 seconds to stir until melted.</li>  <li>Spread evenly over cereal mixture. Let stand until firm.</li>  <li>ENJOY!</li>  </ol>    </body>  </html> |  |

|  |  |
| --- | --- |
| Write code that could be used to create the following output, | |
| **Output** | **Code** |
|  |  |

* **Apply the type attribute to lists**

The type attribute of the [<ol>](https://www.w3schools.com/tags/tag_ol.asp) tag, defines the type of the list item marker. Each are described below.

|  |  |
| --- | --- |
| Type | Description |
| type="1" | The list items will be numbered with numbers (default) |
| type="A" | The list items will be numbered with uppercase letters |
| type="a" | The list items will be numbered with lowercase letters |
| type="I" | The list items will be numbered with uppercase roman numbers |
| type="i" | The list items will be numbered with lowercase roman numbers |

Below illustrates how to apply the type attribute,

|  |  |
| --- | --- |
| **Code** | **Output** |
| <ol type="A">  <li>Cat</li>  <li>Dog</li>  <li>Fish</li>  </ol>  <ol type="i">  <li>Cat</li>  <li>Dog</li>  <li>Fish</li>  </ol>  <ol type="I">  <li>Cat</li>  <li>Dog</li>  <li>Fish</li>  </ol>  <ol type="1">  <li>Cat</li>  <li>Dog</li>  <li>Fish</li>  </ol> |  |

|  |  |
| --- | --- |
| Write code that could be used to create the following output, | |
| **Output** | **Code** |
|  |  |

* **Have Ms. Pluska check off the above tasks**



Before you continue have Ms. Pluska check off the above tasks

Do not continue until you have Ms. Pluska’s (or her designated TA’s) signature \_\_\_\_\_\_\_\_\_\_\_\_

* **Create nested lists**

Nested lists, just like the name implies, are just lists inside lists. Consider the following example,

|  |  |
| --- | --- |
| **Code** | **Output** |
| <ul>  <li>Coffee</li>  <li>Tea  <ul>  <li>Black tea</li>  <li>Green tea</li>  </ul>  </li>  <li>Milk</li>  </ul> |  |

|  |  |
| --- | --- |
| Write code that could be used to create the following output, | |
| **Output** | **Code** |
|  |  |

* **Predict the output of code using list tags**

Interpreting list tags can get confusing, especially when different lists are nested together. Consider the example below,

|  |  |
| --- | --- |
| Predict the output of the following code. | |
| **Code** | **Output** |
| <!DOCTYPE html>  <html>  <head>  </head>  <body>  <h1> My Hobbies </h1>  <ol type="I">  <li>Skiing</li>  <ul>  <li>Telemark</li>  <li>Cross country</li>  </ul>  <li>Programming</li>  <ul>  <li>HTML</li>  <li>CSS</li>  <li>javascript</li>  </ul>  <li>Mountain Biking</li>  <ul>  <li>Enduro</li>  <li>Cross Country</li>  <li>Downhill</li>  </ul>  </ol>  </body>  </html> |  |

* **Receive Credit for the group portion of this lab**



* Indicate the names of all group members.
* Have Ms. Pluska check your formatting text
* Submit your lab to the needs to be graded folder to receive credit for the group portion of this lab.
* Do not submit your lab until you have Ms. Pluska’s (or her designated TA’s) signature

\_\_\_\_\_\_\_