Module 04 Lab 01 Worksheet

Basic HTML and CSS

# Overview

This lab will give you an introduction to basic HTML markup and CSS styles using Bootstrap.

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| * Create a folder called Mod04Lab01. * Open your empty folder in VS Code. * Create a new file called index.html in your project folder. * Open the Integrated Terminal and type the command   live-server  What happens? (5 pts.)  Nothing. It says that its not a recognized cmdlet. But there is a “Go Live” button at the bottom of VSCode so I hit that and it brought me to a browser window which I assume is what you wanted. | 5 |
| In index.html, add the string  Hello World!  Save your changes. What happens? (5 pts.)  Refreshing the browser made “Hello World” appear. | 5 |
| Visual Studio Code makes it easy to write HTML and CSS code.  Delete the contents of index.html.  In the upper left corner, enter a ! (exclamation mark), then press <Tab>.  What happens? (5 pts.)  Auto fills in a basic template  Save your changes to index.html. | 5 |
| The text surrounded by angle brackets (< >) in index.html are *tags*. Tags tell the Web browser how to render the text bracketed by the tag.  Here are a couple of examples:  <head>..</head> - this is the header section, which contains data about your page, but that you don't want the Web browser to display - search engine keywords, for example.  <body> .. </body> This is where you put the content you want to be displayed.  **NOTE**: Tags usually come in pairs - a *start* tag and a *closing* tag. The closing tag looks just like the start tag, except the text inside is preceded by a forward slash (/). *Always remember to close your tags!*  Example: <h1> this text will be large.. </h1>  Just below the <body> tag, enter the string  Hello World!  Save your changes. What happened? (5 pts.)  “Hello World!” appeared in the browser. | 5 |
| Let's jazz up our text a bit. Surround the Hello World with an h1 tag, like so:  <h1>Hello World!</h1>  Save your changes. What happened? (5 pts.)  “Hello World!” became a header style font. | 5 |
| <h1> is a *heading level tag*. There are six levels in all, <h1> through <h6>, in order of importance.  Add the following to your Web page:  This is heading level 1  This is heading level 2  This is heading level 3  This is heading level 4  This is heading level 5  This is heading level 6  Enclose each line with the appropriate heading level. For example:  <h1>This is heading level 1</h1>  Save your changes. What happens? (5 pts.)  All the lines have different levels of header style font. | 5 |
| You can also create lists. To make a bulleted (unordered) list, use the <ul> tag and for each item use the <li> tag, like so:  <ul>  <li>This</li>  <li>That</li>  </ul>  To create a numbered (ordered) list, use the <ol> tag:  <ol>  <li>Item 1</li>  <li> Item 2</li>  </ol>  Add an unordered list of three chores or errands you need to do. (5 pts.)  Add an ordered list of your top three favorite films. (5 pts.) | 10 |
| If you want your text to show up in the default style, use the paragraph tag <p>:  <p> this is just an ordinary sentence.</p>  Add a short paragraph describing your favorite breed of pet. (5 pts.) | 5 |
| To make your text bold, use the <strong> tag:  <p>I really, <strong>really</strong> like the movie Serenity.</p>  Add another short paragraph, with at least one bold element. (5 pts.) | 5 |
| To add italics, use the <em> tag:  <p>The quick brown fox jumped over the <em>lazy</em> dog.</p>  Add another short paragraph, with at least one italicized element. (5 pts.) | 5 |
| **Styles**  CSS (Cascading Style Sheets) let us add more subtle styles to our pages like different colors and fonts as well as elements like margins and padding. The free Bootstrap framework provides a number of pre-written styles and other page elements like navigation bars, menus and buttons.  There are a number of ways to add Bootstrap to your Web page, but the easiest is to point your browser to <http://getbootstrap.com/getting-started/#download> and click on Copy in the Bootstrap CDN section.  Paste the code between the <head> and </head> tags in index.html.  If you look at your displayed page, you'll notice a difference already. | 0 |
| One of the basic elements of Bootstrap is the *container*. It wraps the elements on our page and supports the grid system that Bootstrap uses to make your page easier to lay out.  To add a container, use the <div> tag:  <div class="container">    </div>  NOTE: <div> is a generic tag that you can customize with your own styles. It doesn't apply any styles on its own.  Add a container to the body of index.html and move the rest of the Web elements you've created so far inside of the <div>...</div> tags. (5 pts.) | 5 |
| Another element from Bootstrap is a *well*. This creates a rounded border around an element with a light gray background. To use this, surround the element with the tag:  <div class="well">  ...content goes here...  </div>  (starting to notice a pattern?)  Put the Hello World string in a well, *without* otherwise changing its style. (5 pts.) | 5 |
| The basic element of layout in Bootstrap is the grid system. The grid consists of one or more rows that span the container and are twelve units wide. Each row can be divided into columns, as long as the total width of the row is still twelve units.  For example, to create a row with two columns of six units each, with Hello in the first column and World in the second:  <div class="row">  <div class="col-md-6">Hello</div>  <div class="col-md-6">World</div>  </div>  You can have up to twelve columns in a given row.  Create two rows of three columns each. Place your "This is heading level x" elements in each column, in order. (5 pts.) | 5 |
| Create a row with two columns. Place your unordered list in the first column and your ordered list in the second. (5 pts.) | 5 |
| Create a row with a single column. Place your first paragraph inside. (5 pts.) | 5 |
| Create a row with three columns of 5, 2 and 5 units. Place your bold paragraph in the first column and your italicized paragraph in the last column. (5 pts.) | 5 |
| **Total** | 85 |

Complete this worksheet and submit it to your instructor along with your index.html page.

<!DOCTYPE html>

<html lang="en">

<head>

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"

    integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>Document</title>

</head>

<body>

    <div class="container">

        <div class="well">

            <h1>Hello World!</h1>

        </div>

        <div class="row">

            <div class="col-md-5">

                <h1>This is heading level 1</h1>

                <h2>This is heading level 2</h2>

            </div>

            <div class="col-md-4">

                <h3>This is heading level 3</h3>

                <h4>This is heading level 4</h4>

            </div>

            <div class="col-md-3">

                <h5>This is heading level 5</h5>

                <h6>This is heading level 6</h6>

            </div>

        </div>

        <div class="row">

            <div class="col">

                <ul>

                    <li>Buy stuff</li>

                    <li>GO to work</li>

                    <li>Eat food</li>

                    <li>Talk to people</li>

                </ul>

            </div>

            <div class="col">

                <ol>

                    <li>Matrix</li>

                    <li>Lord of the Rings</li>

                    <li>Rambo</li>

                </ol>

            </div>

        </div>

        <div class="row">

            <p>

                My favorite breed of dog is any bully breed.  I think they get a bad rap.

                I think theyre the best looking dog as well.

            </p>

        </div>

        <div class="row">

            <div class="col-md-5">

                <p>

                    This is a paragraph with a <strong>bold</strong> word in it.

                </p>

            </div>

            <div class="col-md-2">

            </div>

            <div class="col-md-5">

                <p>

                    This is a paragraph with an <em>italisized</em> word in it.

                </p>

            </div>

        </div>

    </div>

</body>

</html>