1 Lab 01 - HTML Basics

Objectives

1. Create an HTML file and open it in both an editor and a web browser.

2. Understand the basic structure of an HTML document.

3. Create paragraphs, lists, and hyperlinks using HTML.

Labs Overview

The primary goal for each of the labs is to provide you with an opportunity to practice the content discussed throughout the lectures.

There are *CHECK POINT* areas throughout each set of instructions. These are places where it might be a good idea to check in with the lab TA before progressing if there are things that were unclear to you.

You do not need to check in with the TA for each checkpoint, and may progress through the whole lab at your own speed. You will need to get checked off by the TA after you have completed the lab before leaving, or you may not get any credit for the lab.

1.1 Part 01 - Downloading an HTML Editor

1. Create a folder named **csc130**. We will save all subsequent folders and files within the folder named **csc130**.

2. Install a programming focused text editor (e.g., Notepad++, VSCode).

3. Open the programming focused text editor.

4. Create a file named **lab1.html** within a folder named **lab1** (the **.html** file extension is important).

1.1.1 Check Point 01

Note: If you are having trouble installing a programming focused text editor, make sure to get help from a lab TA or a lab peer. We will be using the programming focused text editor throughout the lab! You *cannot* use Microsoft Office or similar text editors (e.g., LibreOffice, Google Docs).

1.2 Part 02 - Create Your First Web Page

1. In the file named **lab1.html** add the lines of text from **HTML Starter 1**.

   - Everything should go between the HTML tag.

   - The title and metadata will go in the HEAD tag.

   - The content will go in the BODY tag (we only need a single BODY tag).

2. Add a title to your web page, and a single paragraph that says "Welcome to my page!". We will want to use the appropriate HTML tags for the title and the paragraph.

3. Save the file named **lab1.html**. We will want to save anytime we make an update to the file content (hint: heading and paragraph tag).

4. Open the file named **lab1.html** in a web browser (e.g., Safari, Firefox, Microsoft Edge). You can double-click the **lab1.html** in the operating system finder to automatically open the file in a web browser (the .html file extension allows the desired behaviour).

```
1  <html>
2      <head>
3      </head>
4
5      <body>
6      </body>
7  </html>
```
Code 1: HTML Starter

1.2.1 Check Point 02

Note: If you are having trouble with your code, make sure to get help from a lab TA or a lab peer.

A few common troubles include: spelling mistakes, no closing tags, content in the wrong order, missing required attributes.

Documentation is an important part of programming! Do not be afraid to search documentation!

Documentation Resource: https://developer.mozilla.org/en-US/

1.3 Part 03 - HTML Lists

1. Add two headings: Unordered List and Ordered List. You will want to use the heading tags to wrap "Unordered List" and "Ordered List".

2. Create an Unordered List (i.e., bulleted points) under the appropriate heading. Add a list of places you have lived (or travelled).

3. Create an Ordered List (i.e., numbered points) under the appropriate heading. Add a list of your most frequented websites (text with the name of the website is acceptable).

1.3.1 Check Point 03

Note: If you are having trouble with your code, make sure to get help from a lab TA or a lab peer.

A few common troubles include: using the incorrect HTML tag, no closing tags, content in the wrong order.

1.4   Lab 01 - Final Check Point

1. Send a message (private or public) to the lab TA.

2. Walk through your code and your web page.

Note: You will need to show your work during lab time to receive credit.

Remember: If you are wanting full marks you will need to complete the bonus material *AND* participate meaningfully in the lab (e.g., help others, ask questions).

1.5   Lab 01 - Bonus Material

- Add hyperlinks to the bullet points (i.e., create clickable links).

- Add the **target** attribute to the hyperlinks.

- Add text effects such as **bold**, *italics*, or <u>underline</u>.

Relevant Documentation Resources:

- `https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to`
  `_HTML/Creating_hyperlinks`

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/a#attributes