Part 1: Creating your first Web page with Notepad++

For this course, all of our Web pages will be created using a simple text editor, **Notepad++**. This is a free application, which you can download and install. Use Google to search for Notepad++ and install it on your personal computer.

Software applications used in your program of study are available via the Mohawk Apps site. You can access this at the college using the Apps icon on the desktop in the computer labs, and you can access it from your personal computer using the following URL

http://apps.mohawkcollege.ca

1. Open Notepad++

2. In Notepad++, enter the following text exactly as shown, while substituting your own name and student number, replacing the placeholders My Name and 000123456. Resist the temptation to copy/paste code. You'll learn it much better by typing every character and fixing mistakes.

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset = "UTF-8">
        <!-- Author: My Name, 000123456 -->
        <title>My HTML Page</title>
    </head>
    <body>
        <h1>Your Name COMP CO710 Page</h1>

        <p>
        This page is created to test the development environment.
        Testing the text editor and the Web browser.
        </p>

    </body>
</html>
```
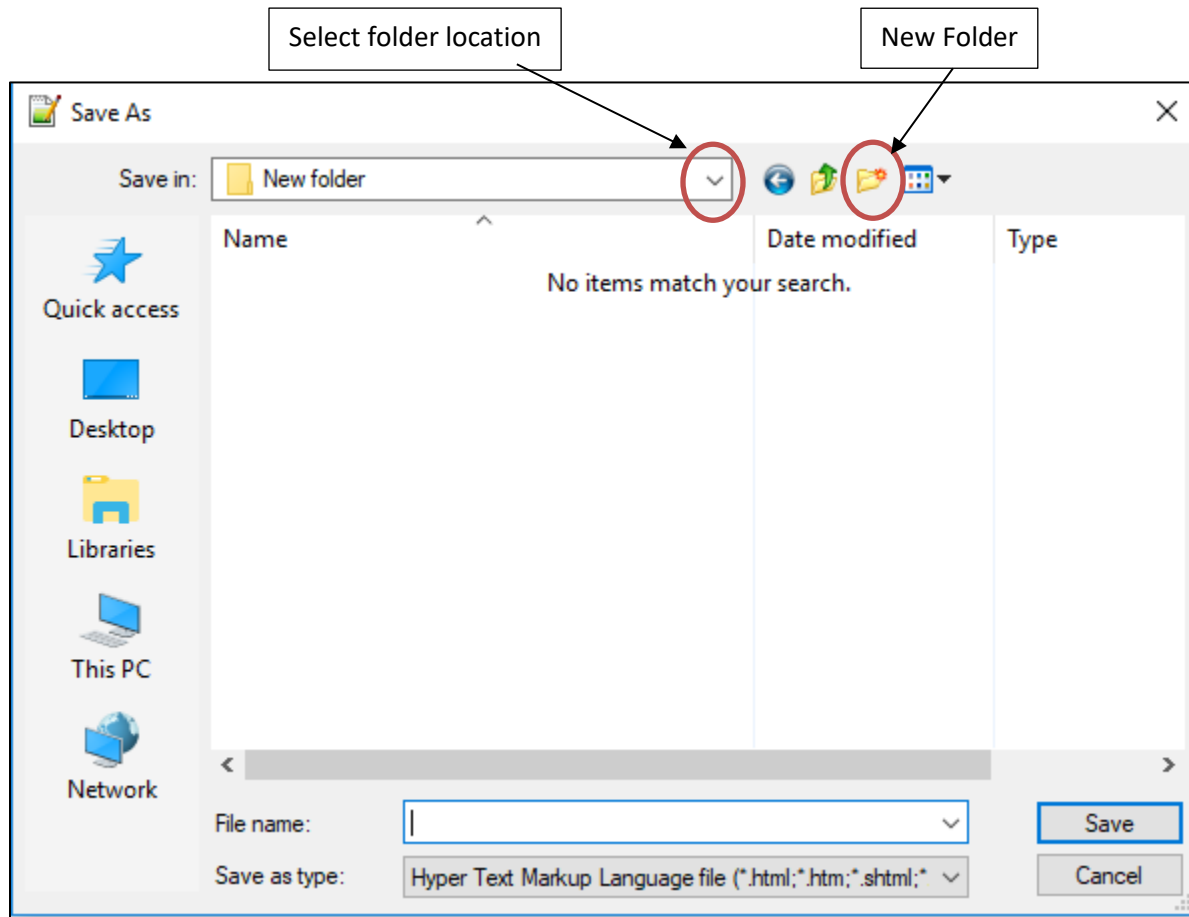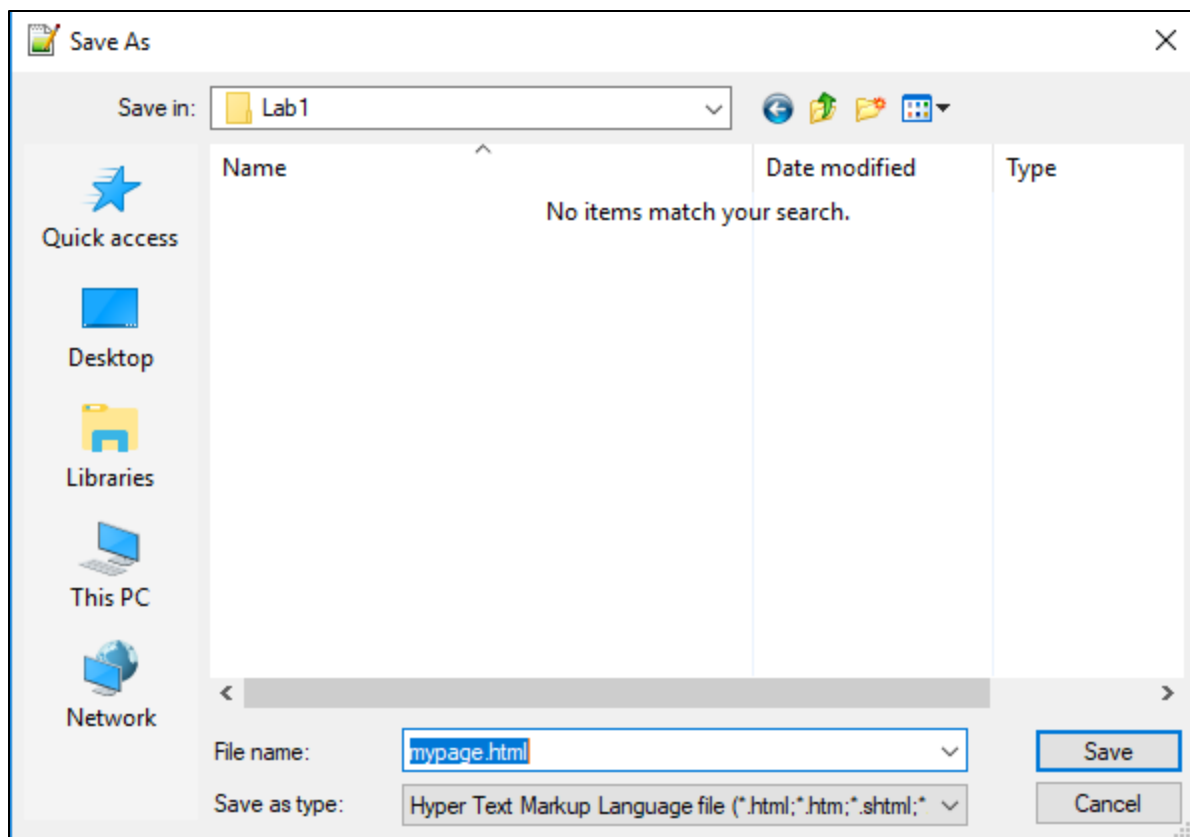
3. Once you have entered a few lines of text, it's time to save the file. First, you'll create a folder for this project.

   Click File -> Save As

   You'll see the Save As window appear.

4. Click the drop-down arrow in the Save in: box to select the folder location.
5. After you've selected a folder location, click the New Folder button to add a folder to the current folder location.
6. Save the page as *mypage.html*. Be sure to use the drop-down and save as a HyperText Markup Language file type.
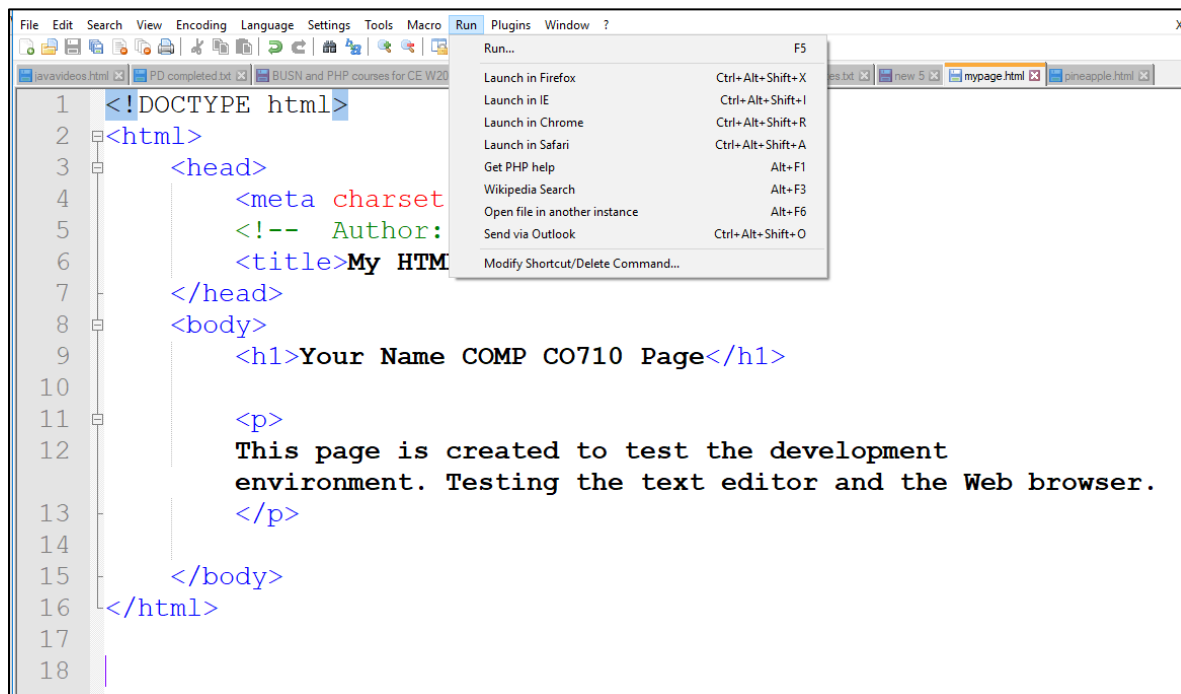
If you're saving files to the hard drive in the on-campus lab workstations, always save files to the D: drive, as files on this drive will survive if the computer needs to be re-started. Files saved to the C: drive will not be available after a re-boot. **Before you leave the lab, be sure to delete all of your HTML files from the folder and from the recycle bin.** You may also store your work on a cloud storage service or on a USB stick.

Once the file is saved, you should notice that the text you have entered will be coloured depending on whether the data is plain text, an attribute, comment or an HTML tag. Continue entering the text until you have completed it.

```
 1    <!DOCTYPE html>
 2    <html>
 3        <head>
 4            <meta charset = "UTF-8">
 5            <!--  Author: My Name, 000123456 -->
 6            <title>My HTML Page</title>
 7        </head>
 8        <body>
 9            <h1>Your Name COMP CO710 Page</h1>
10
11            <p>
12            This page is created to test the development
               environment. Testing the text editor and the Web browser.
13            </p>
14
15        </body>
16    </html>
17
```

4. Once you have finished typing in the above information into Notepad++, save the file to your local system again.
5. To check that you have entered that data correctly and that the Web browser can render the page click Run to display the list of Web browsers that are available. Select one of the Web browsers to view the page.

6. If it does not appear correctly, go back and check your work and ensure that you have entered the text above properly.

Part 2: Creating a Simple Web Page

Filename: **pineapple.html**
Image file: **available on myCanvas**

Create the Web page shown below. You will need to use an image editing application (Paint or another image editor will do) to reduce the size of the image sufficiently to display as shown in the image of the completed lab, below.

Create a folder for this project called *Lab1.*You will save the HTML file, image folder and image files in this folder. After you have completed the lab, you'll create a Zip file that contains this folder and its contents and will upload it to MyCanvas.

Use the html, head, and body elements in your solution file.

Include a title element that contains the text: Pineapple - a tropical plant with an edible fruit

Save the pineapple.html file in the Lab1 folder. In the Lab 1 folder, create a new folder called ***images***. You will save the images for this project in the images folder.

Pineapple

Heading 1

Image reduced in size

Paragraph with italic South America and superscript 17th

Description

Heading 2

Pineapples are indigenous to *South America*, grown between southern Brazil and Paraguay. They have been grown for many centuries. Pineapples were introduced to Europe in the 17th century where they were seen as a luxury. In nature, pineapples are pollinated by hummingbirds. Today, the Philippines is one of the top exporters of pineapples in the world.

Nutrition information for 1 slice of pineapple, 2 ⅔ inches in diameter and ¾ inches thick (partial list)

Heading 2

Per 166 g

Paragraph, italic

- **Energy: 83 calories**
- **Carbohydrates: 21.7 g**
    - Dietary Fiber: 2.32 g
    - Sugar: 16.4 g
- **Fat: 0.199 g**
- **Protein: 0.896 g**
- **Vitamins**
    - Vitamin A, RAE: 4.98 µg
    - Folate(B$_9$): 18 µg
    - Choline: 5.5 mg
    - Vitamin C: 79.3 mg
- **Minerals**
    - Calcium: 21.6 mg
    - Iron: 0.481 mg
    - Selenium: 0.166 µg

Nested list

[1]Wikipedia content can be edited by the general public

paragraph

Be sure to use character entities for µ (the Greek letter mu), and the fractions.

Testing your Web page with a Web Browser

You can open your HTML page using a variety of methods:

- In Notepad++
  - click Run -> Launch in (choose a browser)
- In File Explorer
  - Find the HTML file in the file list window, and double-click to load it into the default browser
  - Drag the filename into an open Web browser

Practice, practice, practice …

From this point on, you will be expected to know how to perform the following tasks:

- Use Notepad++ to develop simple Web pages, and save them as an appropriate file type with an appropriate file name/
- Use appropriate folder structures, ensuring the HTML pages are not in the same folder as images (and later, other types of files).
- Be able to view Web pages that are stored locally in a Web browser

Submitting the Lab

Create a .zip file called *YourNameLab1.zip* that contains ALL files required for the lab, including subfolders with files. Upload the zip file to the Lab 1 Assignment on myCanvas. You do not need to submit the mypage.html test page.

ALL web pages MUST be created using **Notepad++** (or another text editor), and include ALL of the following components:

Proper HTML structure including both the **<!DOCTYPE>**, **<head>** and **<body>** elements, proper <tag> and </tag> syntax, and proper paragraphing.

Although helping each other to troubleshoot code is encouraged, it is expected that you do your own work. If you do, you will learn the material and feel better for it.

Here are some guidelines to help to recognize where the line is between "helping" and "copying".

DO work side-by-side, chat with your classmates and talk about the lab/assignment, and possible algorithms and coding techniques.

DO ask others to look at your code on your monitor or laptop and discuss techniques and troubleshooting ideas.

DO type only on your own keyboard.

DO NOT type on someone else's keyboard, or use their mouse.

DO NOT provide your files to someone else, not even as an "example" of working code.

Since all work submitted to your professor is assumed to be your own original work, you must include the following "Statement of Authorship" in EVERY file you submit for grading:

All labs must contain the authorship in the HTML source code. Place this code in the <head> element.

<!-- Author: *John Doe, 000123456* -->

Replace *John Doe* with your name and the number *000123456* with your student ID

Place this text as a comment at the top of the code for each submitted web page

Failure to include this statement means your work **may receive a deduction of a maximum of 10% of the Lab grade.**

All labs must be created this semester. A lab from a previous semester that is submitted for this semester will be graded as 0.

Copying other people's work and claiming it as your own is a serious breach of ethics. If copied work is found, all parties involved will be processed through the Academic Honesty procedures as per the corresponding policy. To access the Academic Honesty Policy and other college policies, please see this link:

https://www.mohawkcollege.ca/about-mohawk/leadership-and-administration/policies-and-procedures/corporate-policies-and/student

You can also find these policies by searching the www.mohawkcollege.ca site using the search term "student policies".