LAB #1
INTRO WEB DEVELOPMENT & HTML

CONSTRAINTS
- This is an **individual, closed-book** Lab.
- You are not allowed to collaborate with your classmates or use the Internet to search for anything.

REQUIRED RESOURCES/TOOLS:
1. Text editor: Visual Studio Code (*VS Code*)
2. Web browser: Google Chrome

OVERVIEW

In this lab, you will create a basic webpage using HTML. Follow the steps outlined below to complete the exercise.

PART I: CREATING YOUR FIRST WEBPAGE

Step-by-Step Instructions:

Step 1: Create a folder on your desktop and name it **FirstLab**.

Step 2: Launch Visual Studio Code (VS Code) by navigating to Start → All Programs → VS Code, then open the folder you created in Step #1).

Step 3: Create a new HTML file named **paragraph.html**. Ensure that the **paragraph.html** file is saved in the FirstLab folder.

Step 4: Write the following HTML elements in your **paragraph.html** file, then save it.

```
<!DOCTYPE html>
<html>
<head>
    <title>Creating Paragraphs</title>
</head>
 <body>

</body>
</html>
```

Step 5: Go to the FirstLab folder on your desktop.

Step 6: Right-click on the paragraph.html file and select Open with → Google Chrome. A new window will open, and you'll notice it's blank, but the title bar should display "**Creating Paragraphs.**"
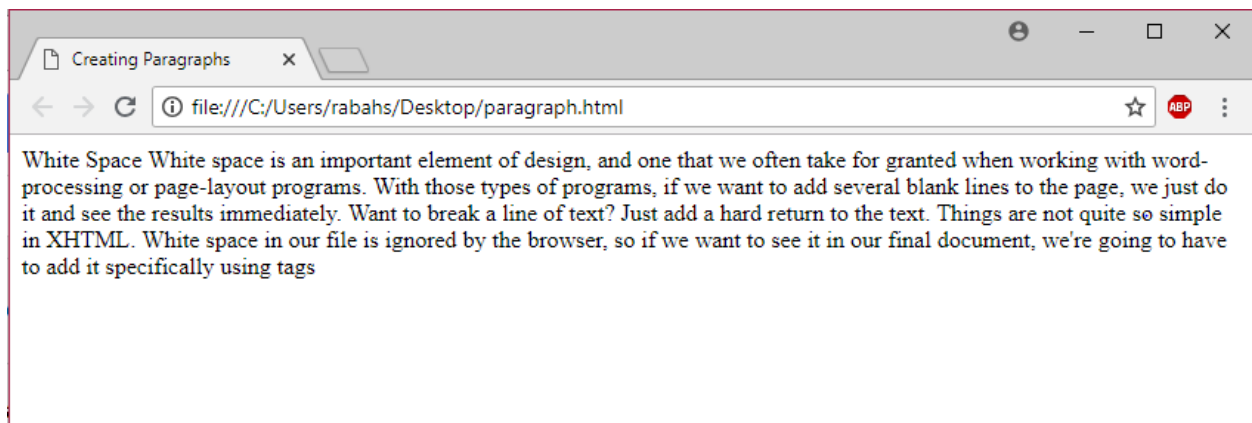
Step 7: Go back to VS Code and insert the following text between the opening <body> and closing </body> tags in the **paragraph.html** file:

White Space

White space is an important element of design, and one that we often take for granted when working with word-processing or page-layout programs. With those types of programs, if we want to add several blank lines to the page, we just do it and see the results immediately. Want to break a line of text? Just add a hard return to the text.

Things are not quite so simple in XHTML. White space in our file is ignored by the browser, so if we want to see it in our final document, we're going to have to add it specifically using tags.

Step 8: Save the file (hit Ctrl + S), then open the **paragraph.html** file again in Google Chrome. You should now see the text displayed in the browser.

Step 9: Place the <h1> tag before the word "White Space" and the </h1> tag after it.

Step 10: Save the file again (Ctrl + S). Then, from the VS Code file menu, select Run → Run Without Debugging, or simply press `Ctrl + F5`. This will launch the page in Chrome. The text "White Space" should now appear as a level one heading.

Step 11: Close the web page window.

Step 12: Next, you will create paragraphs (as shown in **Step #7**). Add the <p> tag at the beginning and the </p> tag at the end of each paragraph on your page.
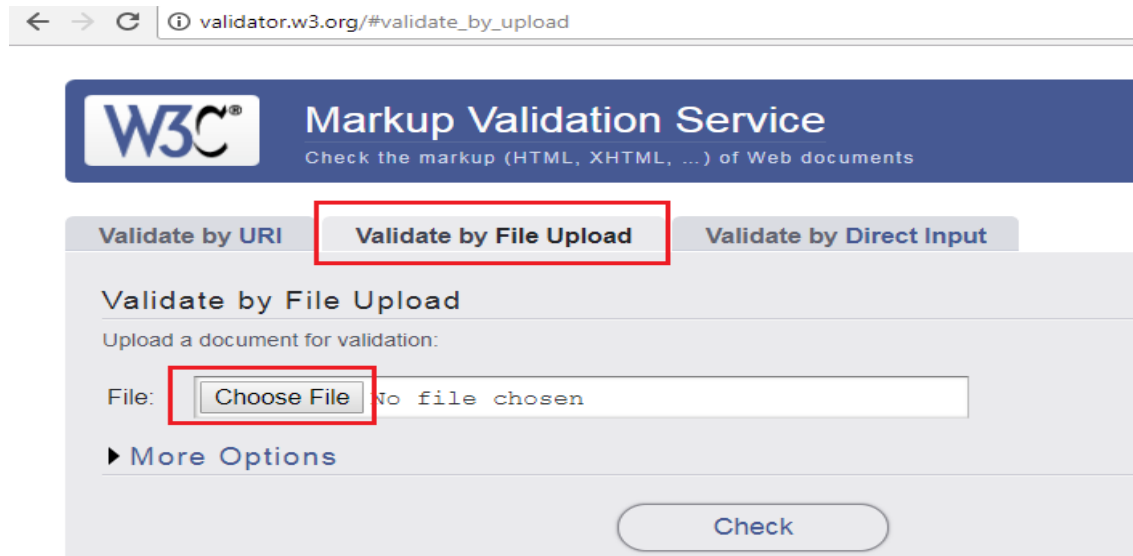
Step 13: Before the closing </body> tag, insert your first name and last name enclosed in <h3> and </h3> tags.

Step 14: Save the file again (Ctrl + S) and open it in both Chrome.

Step 15: Once you're done, close the web page window.

PART I: CREATING YOUR FIRST WEBPAGE

1) In a browser window, navigate to: https://validator.w3.org/#validate_by_upload
2) Once opened make sure, click on "Validate by File Upload" as shown below.

3) Upload your HTML file you created in the first part and click the check button.
4) Errors will be displayed if your document is not valid.

EVALUATION CRITERIA

		POINTS
Functionality	Compliance of the implementation with the stated requirements.	70
Correctness	No errors, the webpage renders properly and meets all the specifications. Ability to perform as required and produce correct output.	30
	Total	**100**

WHAT TO SUBMIT
➤ Compress the FirstLab folder then upload it to LÉA.

Lab #1   420-311-VA Internet Programming