LEARNING ACTIVITY SHEET
SPECIAL PROGRAM IN ICT 9
WEB DESIGN 9
Third Quarter, Week 3

Name of Learner: _____

Grade Level /Section: _____ Date: _____

WHITESPACE

BACKGROUND INFORMATION FOR LEARNERS

The rest of this lesson will focus on some tools developers use to make code easier to interpret.

As the code in an HTML file grows, it becomes increasingly difficult to keep track of how elements are related. Programmers use two tools to visualize the relationship between elements: whitespace and indentation.

Both tools take advantage of the fact that the position of elements in a browser is independent of the amount of whitespace or indentation in the index.html file.

For example, if you wanted to increase the space between two paragraphs on your web page, you would not be able to accomplish this by adding space between the paragraph elements in the index.html file. The browser ignores whitespace in HTML files when it renders a web page, so it can be used as a tool to make code easier to read and follow.

What makes the example below difficult to read?

```
<body><p>Paragraph 1</p><p>Paragraph 2</p></body>
```

You have to read the entire line to know what elements are present. Compare the example above to this:

```
<body>
        <p>Paragraph 1</p>
        <p>Paragraph 2</p>
</body>
```

This example is easier to read, because each element is on its own line. While the first example required you to read the entire line of code to identify the elements, this example makes it easy to identify the body tag and two paragraphs. A browser renders both examples the same way:

```
Paragraph 1
Paragraph 2
```

INDENTATION

The second tool web developers use to make the structure of code easier to read is indentation.

The spaces are inserted using the space and tab bars on your keyboard.

The World Wide Web Consortium, or W3C, is responsible for maintaining the style standards of HTML. At the time of writing, the W3C recommends 2 spaces of indentation when writing HTML code. Although your code will work without exactly two spaces, this standard is followed by the majority of professional web developers. Indentation is used to easily visualize which elements are nested within other elements.

```
<body>
  <p>Paragraph 1</p>
  <div>
        <p>Paragraph 2</p>
  </div>
  </body>
```

In the example above, Paragraph 1 and the <div> tag are nested inside of the <body> tag, so they are indented two spaces. The Paragraph 2 element is nested inside of the <div> tag, so it is indented an additional two spaces.

COMMENTS

HTML files also allow you to add comments to your code. Comments begin with <!-- and end with -->. Any characters in between will be ignored by your browser.

```
<!-- This is a comment that the browser will not display. -->
```

Including comments in your code is helpful for many reasons:

1. They help you (and others) understand your code if you decide to come back and review it at a much later date.
2. They allow you to experiment with new code, without having to delete old code.

```
<!-- Favorite Films Section -->
<p>The following is a list of my favorite films:</p>
```

In this example, the comment is used to denote that the following text makes up a particular section of the page.

```
<!-- <p> Test Code </p> -->
```

In the example above, a valid HTML element (a paragraph element) has been "commented out." This practice is useful when there is code you want to experiment with, or return to, in the future.

LEARNING COMPETENCY

Organize the HTML Document based on the Web development standard.

ACTIVITY:

Direction: Organize the code below based on the Web development standard and add comments to describe each section of HTML structure.

```
<!DOCTYPE html>
<html>
<head><title>Semantic</title></head>
<body><div id="header"><h1>Navigational Links</h1><div id="nav">
<ul><li><a href="#home">Home</a></li><li><a href="#posts">Posts</a></li><li><a
href="#contact">Contact</a></li>
</ul></div></div><div id="main">
<div id="section"><h2>Facts About Dogs</h2>
<p>Dogs have a sense of time. It's been proven that they know the difference between an hour and five. If
conditioned to, they can predict future events, such as regular walk times. </p></div></div>
<div id="aside"><p>A study was conducted on dogs being away from their owners for varying hours and the
studies show that dogs who were away from their owners the longest showed the greatest amount of affection!
</p> </div><div id="footer"><p>Contact me at +1 234 567 8910 </p></div></body></html>
```

SCORING RUBRICS FOR CODING STANDARD

Criteria	Excellent 5	Good 4	Fair 3	Poor 2	POINTS
Work Ethics	You worked very hard on your project and were always on task.	You worked hard on your project but sometimes got off task.	You worked on your project but were off task and needed to be redirected by the teacher.	You did not seriously work on your project, you frequently were off task, and did not refocus when redirected by the teacher.	
Coding Standard	All elements/tags are properly nested, the tags are easy to read and understand by other developer.	Some tags are not nested and can read and follow the element structures.	Some tags are not nested, the element structures are confusing.	No nesting of tags applies, difficult to read the code structure.	
				TOTAL	

REFLECTION

_____
_____
_____
_____

REFERENCES FOR LEARNERS

Electronic Resources:

https://www.w3schools.com/html/default.asp
https://notepad-plus-plus.org/downloads/v7.8.9/

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