Homework Assignment: Using Various HTML Elements on a HTML Page

Scenario

As a new developer at Contoso News Conglomerate, you are tasked with building a new, modern and responsive homepage for the news organization. The existing homepage was built with XHTML and is very hard to understand without deep institutional knowledge of each individual HTML element ID or CSS class. You have plenty of time to start fresh so you have decided to "frame out" a new homepage using HTML5 semantic elements, syntactically valid HTML and a cleaner header.

Overview

In this homework assignment, you will create the basic HTML web page that will be used for Contoso News homepage. You will not worry about formatting yet as this will be done in follow-up homework assignments.

Tasks

In this assignment you will:

- Setup your development environment using Visual Studio Code.
- Create a basic HTML document structure that is clean and concise.
- Add semantic elements to the HTML document for each section of your homepage.
- Populate your homepage with a header and lorem ipsum content so that you can begin to visualize the results.

Homework instructions

For each homework assignment, two sets of instructions are available to use:

- **High-Level**: These instructions are very simple and challenge you to use your knowledge from the module to implement the instructions.
- **Detailed**: These instructions are "step-by-step" and can guide you if you get stuck with the high-level instructions.

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These instructions are intentionally vague. They are designed to validate your ability to complete the homework instructions without additional guidance. If you ever get stuck, you can always switch to the detailed variant of these instructions.

Setup Your Development Environment

1. On your local machine, Create a new folder for all of your homework assignments. > This folder will be used for every homework assignment. Each assignment builds on the previous assignments.
2. Open the newly created folder using **Notepad**++.
3. Create a new file within the folder name **index.html** and open the editor for the file.

Create a Basic HTML Document

1. Create a **DOCTYPE** element at the top of your file.
2. Below the **DOCTYPE** declaration, add a **HTML** element with the value **en-US** specified for the **lang** attribute.
3. Within the HTML element, add **head** and **body** elements.
4. Within the head elements, add a **title** element with **Contoso News** as the content of the element.

Add Semantic HTML Elements to The Page

1. Within the **body** element, add a **main** element.
2. Within the **main** element, add a **h3** element with the content *Latest Articles*.
3. Within the **main** element, add *three* **article** elements. Within each of the *three* **article** elements, add a **h4** element and an **p** element.

Add Placeholder Text Content

1. Locate the *first* **article** element within the **main** element. Populate this element's child elements with the following content:
    - **h4:** International Story
    - **p:** Curabitur pharetra luctus augue, non posuere orci tristique vel. Sed posuere nisi nec lacus ullamcorper, ac vulputate nisl consequat. Nullam sollicitudin nulla vel felis faucibus aliquam. Nunc sit amet velit orci. Proin sed orci fringilla, elementum felis condimentum, convallis augue. Aliquam erat volutpat. Mauris tempus nunc sit amet aliquet bibendum. Praesent vestibulum cursus ex, quis laoreet eros consectetur ac. Ut congue libero quis mauris egestas feugiat. Sed

pharetra lorem et magna fringilla, a volutpat nibh sollicitudin. Nullam sagittis sollicitudin urna, sed sollicitudin mauris ornare id.

2. After the text within the **p** element of the *first* **article** element, add a hyperlink (**a**) element with the following attributes:
   - **content:** Read More...
   - **href:** #
   - **target:** _blank

3. Locate the *second* **article** element within the **main** element. Populate this element's child elements with the following content:
   - **h4:** Finance Story
   - **p:** Nullam tempor mi at libero elementum varius. Sed lobortis lacus feugiat est tristique, nec imperdiet turpis scelerisque. Ut sed urna malesuada, scelerisque dui sit amet, tempus mauris. Integer bibendum egestas urna, a bibendum sem gravida quis. Cras accumsan rhoncus vestibulum. Nam eu blandit leo. Integer at consectetur nunc, et tempus urna. Integer sit amet sollicitudin elit. Donec nec posuere erat. Sed vestibulum nisl neque, vitae tincidunt ex molestie quis. Nulla fringilla viverra turpis in volutpat. Cras vel orci quis velit efficitur ullamcorper sed eu ex. Nullam vel ex nec lectus imperdiet luctus vitae vel nibh. Donec eleifend velit eros, eu efficitur justo molestie id. In egestas gravida lectus. Ut ipsum odio, suscipit sit amet molestie non, scelerisque sed mi. Aenean sed augue eu arcu faucibus molestie. Sed eget ante gravida, rhoncus velit eu, tempus quam. Sed fermentum at odio sed commodo. Fusce lobortis cursus purus, quis consequat est faucibus at. Etiam massa felis, sodales at sodales sed, iaculis quis arcu.

4. After the text within the **p** element of the *second* **article** element, add a hyperlink (**a**) element with the following attributes:
   - **content:** Read More...
   - **href:** #
   - **target:** _blank

5. Locate the *third* **article** element within the **main** element. Populate this element's child elements with the following content:
   - **h4:** Technology Story
   - **p:** Morbi eget justo ut velit dapibus malesuada. Nunc elementum, neque quis convallis tempus, lacus ante tristique est, id porta tortor leo eget orci. Suspendisse hendrerit interdum lacus et condimentum. Mauris at ex dignissim, bibendum libero at, fermentum lectus. Maecenas porttitor purus quis augue interdum, eget malesuada neque placerat. Ut hendrerit risus in nibh elementum, quis vestibulum ipsum vulputate. Nulla facilisi. In consectetur et lacus vel tincidunt. Quisque feugiat ipsum et erat rhoncus efficitur. In in augue at enim tempor sollicitudin.

6. After the text within the **p** element of the *third* **article** element, add a hyperlink (**a**) element with the following attributes:
   - **content:** Read More...
   - **href:** #
   - **target:** _blank

Add a Header Element

1. Within the **body** element of your HTML document, add a new **header** before the **main** element.
2. Within the new **header** element, add a **h1** element with the content *Contoso News*:
3. Within the new **header** element, add a **h2** element with the content *On Time, On Topic*:

Validate

1. Open it in your favorite **WEB Browser** to view the resulting web page.
2. Does your solution look similar to this?