

2401 - Web Design and Development

Wednesday 21.2.2024

Semantic HTML5 markup exercise:

Analyse the attached document *example-doc-pcu.pdf* and recreate the content using **semantic HTML5 markup**. Take special care of the following:

- Correct use of **semantic** HTML5 tags
 - Correct **nesting** and **casing**
 - Clean **indentation** and **line spacing** in your code
 - **Valid** HTML5
1. Create a new project called **pcu-courses** The project only needs a single html file. **Use a correct file name**. If you are using Windows OS and you can not see the **file extension** change your computer preferences so you can.
 2. Install the **Live Preview** (Microsoft) plugin into VSCode and test that it works
 3. Learn how to create markup by typing the **name of a tag** followed by a **tab**
 4. The content provided in the sample page must be marked up using the following HTML tags.
 - h1
 - nav
 - ul + li
 - section
 - h2
 - article
 - h3
 - p
 5. Set a correct page **title**
 6. **Pay attention to the correct code indentation**
 7. The main headline must be **h1**
 8. The navigation must be inside a nav tag, the navigation content is a list **ul** individual list-items **li**, Content of each list item must be enclosed in an anchor tag **a**.
 9. Enclose each part about a school in an **section** tag
 10. Each section contains a headline that must be marked up as **h2**
 11. Each section contains a multiple articles about each course. Each course must be marked up as **article**
 12. Each article contains a subheadline **h3** and a paragraph **p**
 13. Add an **id** attribute to each section. Use the proper naming for each **id**
 14. Add an **href** attribute to each anchor tag in the navigation
 15. Link each anchor in the navigation to the appropriate section
 16. Validate your HTML using W3C validator

Code examples:

Example of a simple list:

```
<ul>
  <li>Red</li>
  <li>Green</li>
  <li>Blue</li>
</ul>
```

Example of a list with internal anchors:

```
<ul>
  <li><a href="red">Red</a></li>
  <li><a href="green">Green</a></li>
  <li><a href="blue">Blue</a></li>
</ul>
```

Example of an article:

```
<article>
  <h3>Hello World</h3>
  <p>This is a paragraph</p>
</article>
```

Wrong nesting:

```
<article>
  <h3>
    Hello World
    <p>This is a paragraph</p>
  <h3>
</article>
```

Wrong casing:

```
<ARTICLE>
  <h3>Hello World</h3>
  <p>This is a paragraph</p>
</article>
```

Correct markup but messy indentation:

```
<section>
<article>
<h3>Hello World</h3>
  <p>This is a paragraph
</p>
  </article></section>
```

Same As above but clean indentation:

```
<section>
  <article>
    <h3>Hello World</h3>
    <p>This is a paragraph</p>
  </article>
</section>
```

Research links:

<https://clearlydecoded.com/anatomy-of-html-tag>

<https://www.merkle.com/en/merkle-now/articles-blogs/2023/what--why---how-of-semantic-html.html>

<https://www.codecademy.com/resources/docs/html/semantic-html>

https://www.w3schools.com/html/html_headings.asp

https://www.w3schools.com/tags/tag_nav.asp

https://www.w3schools.com/html/html_lists_unordered.asp

https://way2tutorial.com/html/html_internal_links.php

https://www.w3schools.com/tags/tag_section.asp

https://www.w3schools.com/tags/tag_article.asp

<https://ctrly.blog/html-tag-nesting/>

https://www.w3schools.com/html/html_id.asp