HTML 5 Assignments

Assignment 1: Basic HTML Structure

Create a simple HTML document with the following requirements:

1. The document should have a title that says "My First Web Page".

2. Include a heading that says "Welcome to My Web Page".

3. Add a paragraph that introduces yourself and describes your interests.

4. Create an ordered list with at least three items related to your hobbies.

5. Insert an image of your choice and provide appropriate alt text.

6. Add a link to an external website that you find interesting.

7. Include a footer that contains your name and the current year.

Assignment 2: HTML Forms and Input Elements

Build an HTML form with the following specifications:

1. Create a form with a heading that says "Contact Form".

2. Include input fields for the user's name, email address, and phone number.

3. Add a dropdown menu with three options for the user to select their gender.

4. Implement checkboxes for the user to select their preferred programming languages (at least three options).

5. Include a textarea for the user to provide additional comments.

6. Add a submit button to submit the form.

Assignment 3: CSS Styling and Layout

Enhance the appearance and layout of a web page using CSS:

1. Create an HTML document with a title of your choice.

2. Apply CSS styling to change the font family, font size, and font color of the text.

3. Implement a background color or image for the entire page.

4. Use CSS to create a two-column layout with a sidebar on the left and main content on the right.

5. Style the links to have a different color when hovered over.

6. Add a CSS animation to an element of your choice (e.g., a spinning logo or fading text).

Assignment 4: Responsive Web Design

Develop a responsive web page that adapts to different screen sizes:

1. Create an HTML document with a title that reflects the page's content.

2. Use CSS media queries to make the page responsive.

3. Implement a navigation bar that collapses into a hamburger menu on smaller screens.

4. Ensure that all elements on the page adjust their size and layout appropriately for different screen widths.

5. Include at least one image that resizes proportionally based on the screen size.

6. Test the responsiveness of the page by viewing it on different devices or using browser developer tools.

Assignment 5: HTML5 Semantic Elements and Multimedia

Build a web page that incorporates HTML5 semantic elements and multimedia:

1. Create an HTML document with an appropriate title.

2. Use semantic elements such as `<header>`, `<nav>`, `<main>`, `<section>`, `<article>`, and `<footer>` to structure the page.

3. Embed a video from an external source (e.g., YouTube) using the `<video>` element.

4. Include an audio file and provide controls for playback using the `<audio>` element.

5. Add at least one interactive map using the `<iframe>` element.

6. Apply CSS styling to enhance the appearance and layout of the page.

Note: Remember to validate your HTML code and ensure it follows best practices for accessibility and usability.