CSS3 Box Model and Card Creation - Assignment

Objective:

To learn and practice how to use the CSS3 box model and to create a responsive card layout similar to Bootstrap.

Task 1: Understand the CSS3 Box Model

1.1. Create an HTML page with a **div** element and give it an id "box".

1.2. Using CSS, add a width of 200px and height of 200px to the **div**.

1.3. Add a margin of 30px, padding of 20px, and a border of 10px solid black.

1.4. Now, add a background color of your choice to the **div**.

1.5. Observe how the total width and height of the div are calculated based on the box model (width + padding + border).

Task 2: Create a responsive card layout

2.1. Create an HTML page with a **div** element, and give it a class name "card".

2.2. Add the following CSS properties to your card:

- Width: 300px
- Background color: #f8f9fa (similar to Bootstrap card's background color)
- Border: 1px solid #dee2e6 (similar to Bootstrap card's border color)
- Border-radius: 0.25rem (for rounded corners)
- Padding: 1rem (for space inside the card)
- Margin: 1rem (for space outside the card)

2.3. Inside the card, add a **div** with a class name "card-header" and another **div** with a class name "card-body".

2.4. Add a sample heading to the card-header and some text to the card-body.

2.5. Style your card-header and card-body by giving them different colors or fonts.

Extra Challenge:

Make your card layout responsive: Resize your browser window to see how your card layout responds. If it doesn't, use CSS3 media queries to make it responsive. The card should maintain its aspect ratio and should not overflow the viewport at smaller screen sizes.

Submission:

Submit your HTML and CSS files. Include comments in your code to explain your design decisions.

Evaluation:

You will be graded on:

- Your understanding of the CSS3 box model
- Your ability to create and style a card similar to a Bootstrap card
- Your use of proper HTML and CSS coding conventions, including indentation, spacing, and use of comments
- The responsiveness of your card layout