**CSS Styling and Responsive Design**

1. Write CSS to create a navigation bar with horizontal menu items.
   * Add hover effects to change the background color of each menu item.
2. Design a responsive webpage layout with:
   * A header, main content area, and footer using CSS Grid.
   * Adjust the layout for devices with max-width 600px using media queries.
3. Create CSS rules to style a login form with the following:
   * Input fields styled with padding and rounded borders.
   * A styled submit button with hover effects.
4. Write a CSS rule to apply the box model for a card element:
   * Add padding, margin, and a border to the card.
   * Include a shadow effect for the card.
5. Use Flexbox to design a row layout for three sections:
   * Left, Center, and Right aligned sections.
   * Ensure equal spacing and adjust alignment for small screens.

CODE:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>CSS Styling and Responsive Design</title>

<style>

/\* Question 1: Navigation Bar \*/

nav {

background-color: #333;

color: white;

padding: 10px;

text-align: center;

}

nav a {

color: white;

text-decoration: none;

margin: 0 10px;

}

nav a:hover {

background-color: #555;

padding: 5px;

}

/\* Question 2: Responsive Layout \*/

.container {

display: grid;

grid-template-columns: 1fr 2fr 1fr;

gap: 10px;

}

@media (max-width: 600px) {

.container {

grid-template-columns: 1fr;

}

}

/\* Question 3: Form Styling \*/

form input {

padding: 10px;

margin: 5px;

border-radius: 5px;

border: 1px solid #ccc;

}

form button {

background-color: #007BFF;

color: white;

padding: 10px 15px;

border: none;

border-radius: 5px;

}

/\* Question 4: Box Model \*/

.card {

padding: 10px;

margin: 15px;

border: 1px solid #ddd;

box-shadow: 2px 2px 5px rgba(0, 0, 0, 0.1);

}

/\* Question 5: Flexbox \*/

.flex-container {

display: flex;

justify-content: space-between;

}

</style>

</head>

<body>

<!-- Question 1 -->

<nav>

<a href="#">Home</a>

<a href="#">About</a>

<a href="#">Contact</a>

</nav>

<!-- Question 2 -->

<div class="container">

<div>Header</div>

<div>Main Content</div>

<div>Footer</div>

</div>

<!-- Question 3 -->

<form>

<input type="text" placeholder="Username" required>

<input type="password" placeholder="Password" required>

<button>Login</button>

</form>

<!-- Question 4 -->

<div class="card">

<h3>Card Title</h3>

<p>Card Content</p>

</div>

<!-- Question 5 -->

<div class="flex-container">

<div>Left</div>

<div>Center</div>

<div>Right</div>

</div>

</body>

</html>