

Flexbox Assignment Questions

1. Responsive Navigation Bar

- Create a horizontal navigation bar using Flexbox.
- Requirements:
 - The navigation bar should have at least 5 links.
 - Links should be evenly spaced when on a desktop.
 - On smaller screens, the links should stack vertically.
 - Include a hover effect on the links.

2. Product Card Layout

- Design a product card using Flexbox that displays:
 - An image (aligned at the top).
 - A title and description (centered below the image).
 - A "Buy Now" button aligned at the bottom of the card.

3. Social Media Icons

- Create a footer with 5 social media icons using Flexbox.
- Requirements:
 - Icons should be horizontally aligned and spaced evenly.
 - Add a hover effect to change the icon color.
 - Ensure the layout adapts to smaller screen sizes by wrapping the icons.

4. Flexbox Image Gallery

- Build a responsive image gallery with 10 images.
- Requirements:
 - Images should adjust their size and spacing to fit within the container.
 - On smaller screens, images should stack in 2 columns.
 - Add a gap between images.

5. Two-Column Layout

- Create a layout with two sections:
 - The left section takes 30% of the container width.
 - The right section takes 70% of the container width.
 - Both sections should stretch to equal height regardless of content size.

Grid Assignment Questions

1. Basic Grid Layout

- Create a 4x3 grid with 12 boxes.
- Requirements:
 - Each box should have a unique background color.
 - Add a gap between the boxes.
 - Ensure the layout is responsive by stacking the grid into 1 column on smaller screens.

2. Blog Post Layout

- Design a blog page using CSS Grid with the following sections:
 - Header (spanning the full width).
 - Sidebar (occupying 1/4 of the width).
 - Main content area (occupying 3/4 of the width).
 - Footer (spanning the full width).

Assignment Questions on CSS Flexbox and CSS Grid

3. Dashboard Design

- Create a dashboard layout with the following grid structure:
 - A header spanning the top.
 - A sidebar on the left.
 - A main content area.
 - A footer spanning the bottom.
- Add content placeholders in each section.

4. Advanced Grid Gallery

- Create an image gallery using Grid with varying column spans.
- Requirements:
 - Include at least 6 images.
 - Some images should span 2 columns or 2 rows.
 - Add a gap between images.

5. E-commerce Page Layout

- Build a grid-based e-commerce product page with the following:
 - A header section.
 - A sidebar for product categories.
 - A main section displaying products in a 4-column grid.
 - A footer section.

Bonus Challenge Questions

1. Combine **Flexbox** and **Grid** in a responsive layout. For example:
 - Use Grid for the overall page structure (header, sidebar, main content, footer).
 - Use Flexbox inside the main content area to organize items like product cards.
2. Create a responsive profile page with the following:
 - A profile picture aligned at the center using Flexbox.
 - Use Grid to divide the page into sections like "About," "Posts," and "Friends."