CSS Display & Position Practice Challenges

**🔹 Display Practice Tasks**

1. **Inline vs Block**
   * Show 3 <div> boxes in a row (each 100px × 100px, with different background colors).
   * Then change them to stack vertically.
2. **Inline-block Navigation**
   * Create a navigation bar with 4 links side by side.
   * The links should look like buttons with padding and hover color change.
3. **Image with Caption**
   * Place an image and a text caption **below it** (like a card).
   * Then, make the caption appear **next to the image** (side by side).
4. **Flexbox Centering**
   * Create a parent <div> (500px × 300px).
   * Center a child <div> (100px × 100px) **horizontally & vertically** using display: flex.
5. **Grid Layout**
   * Create a 2×2 grid of 4 boxes (each 150px × 150px).
   * Add a 10px gap between them.

**🔹 Position Practice Tasks**

1. **Relative Shift**
   * Create a box (200px × 200px, blue).
   * Move it **50px down and 50px right** using position: relative.
2. **Absolute Inside Parent**
   * Create a parent box (400px × 400px, lightgrey).
   * Place a small red box (50px × 50px) **exactly in the bottom-right corner** using position: absolute.
3. **Fixed Header**
   * Create a header (full width, 60px tall, dark background).
   * Fix it at the top so it **stays visible while scrolling**.
4. **Sticky Section Title**
   * Make a section with 3 paragraphs and a title.
   * The title should **stick at the top** until the section is over.
5. **Z-Index Stacking**
   * Create 3 overlapping boxes (red, green, blue).
   * Arrange them so that **green appears on top**, then red, then blue.

# Display Challenges

## 1. Inline vs Block

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Inline vs Block</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="box box1"></div>  
 <div class="box box2"></div>  
 <div class="box box3"></div>  
</body>  
</html>

## 2. Inline-block Navigation

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Inline-block Nav</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <nav>  
 <a href="#">Home</a>  
 <a href="#">About</a>  
 <a href="#">Services</a>  
 <a href="#">Contact</a>  
 </nav>  
</body>  
</html>

## 3. Image with Caption

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Image with Caption</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="card">  
 <img src="https://via.placeholder.com/150" alt="Sample">  
 <p class="caption">This is a caption</p>  
 </div>  
</body>  
</html>

## 4. Flexbox Centering

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Flex Center</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="parent">  
 <div class="child"></div>  
 </div>  
</body>  
</html>

## 5. Grid Layout

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Grid Layout</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="grid">  
 <div class="box">1</div>  
 <div class="box">2</div>  
 <div class="box">3</div>  
 <div class="box">4</div>  
 </div>  
</body>  
</html>

# Position Challenges

## 1. Relative Shift

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Relative Shift</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="box"></div>  
</body>  
</html>

## 2. Absolute Inside Parent

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Absolute Inside Parent</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="parent">  
 <div class="child"></div>  
 </div>  
</body>  
</html>

## 3. Fixed Header

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Fixed Header</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <header>My Header</header>  
 <main>  
 <p>Lots of content here...</p>  
 <p>Scroll down to see effect</p>  
 <p style="height:2000px;"></p>  
 </main>  
</body>  
</html>

## 4. Sticky Section Title

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Sticky Title</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <section>  
 <h2>Sticky Title</h2>  
 <p>Lorem ipsum dolor sit amet...</p>  
 <p>Keep scrolling...</p>  
 <p>And more text...</p>  
 </section>  
</body>  
</html>

## 5. Z-Index Stacking

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Z-Index</title>  
 <style>  
 /\* Your CSS here \*/  
 </style>  
</head>  
<body>  
 <div class="box red"></div>  
 <div class="box green"></div>  
 <div class="box blue"></div>  
</body>  
</html>