HTML5-Day 01-Hands_On_Problem<Rushabh Bhusanur>

Problem 1:

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <title>Styled Web Page</title>
 <link rel="stylesheet" href="style.css" />
</head>
<body>

 <header class="site-header">
  <h1>My Learning Website</h1>
  <p>CSS Selectors, Box Model & Form Styling</p>
 </header>

 <main class="page">
  <section class="info-card">
   <h2>About This Page</h2>
   <p>
    This page demonstrates external CSS, proper alignment, spacing,
    background colors, borders, margin, padding, and a styled registration form.
    The layout is aligned using modern CSS layout techniques.
   </p>
   <p>
    You can extend this into a real multi-page website later with Home,
    Products and Contact pages.
   </p>
```

```html
</section>

<section class="form-card">
  <h2>Student Registration</h2>

  <form class="register-form">
   <div class="field">
    <label>Name</label>
    <input type="text" placeholder="Enter your name" required />
   </div>

   <div class="field">
    <label>Email</label>
    <input type="email" placeholder="Enter your email" required />
   </div>

   <div class="field">
    <label>Password</label>
    <input type="password" placeholder="Enter password" required />
   </div>

   <div class="field">
    <label>Gender</label>
    <div class="radio-row">
     <label><input type="radio" name="gender" /> Male</label>
     <label><input type="radio" name="gender" /> Female</label>
    </div>
   </div>

   <div class="field">
    <label>Course</label>
```

```html
      <select required>

        <option value="">Select Course</option>

        <option>HTML</option>

        <option>CSS</option>

        <option>JavaScript</option>

      </select>

    </div>


    <button type="submit">Register</button>

  </form>

 </section>

 </main>


</body>

</html>
```

CSS:

```css
/* Reset */

* {

  margin: 0;

  padding: 0;

  box-sizing: border-box;

  font-family: Arial, sans-serif;

}


/* Page background */

body {

  min-height: 100vh;

  background: #f4f7fb;

}
```

```css
/* Header */
.site-header {
  background: #2c3e50;
  color: white;
  padding: 20px 10px;
  text-align: center;
}

.site-header h1 {
  letter-spacing: 2px;     /*  Letter spacing added */
  text-transform: uppercase;
}

/* Main layout */
.page {
  max-width: 1000px;
  margin: 40px auto;
  padding: 0 20px;
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 30px;
  align-items: start;
}

/* Info card */
.info-card {
  background: #ffffff;
  padding: 25px;
  border-radius: 10px;
  border-left: 6px solid #3498db;
}
```

```css
.info-card h2 {
  margin-bottom: 10px;
  color: #2c3e50;
  letter-spacing: 1px;    /*  Letter spacing added */
}

.info-card p {
  margin-bottom: 10px;
  color: #555;
  line-height: 1.6;
  letter-spacing: 0.3px;   /*  Light letter spacing for readability */
}

/* Form card */
.form-card {
  background: #ffffff;
  padding: 25px;
  border-radius: 10px;
  border-left: 6px solid #2ecc71;
}

.form-card h2 {
  text-align: center;
  margin-bottom: 20px;
  color: #2c3e50;
  letter-spacing: 1px;    /*  Letter spacing added */
}

/* Form styling */
.register-form .field {
```

```css
    margin-bottom: 15px;

  }


  .register-form label {

    display: block;

    margin-bottom: 6px;

    font-weight: 600;

    color: #333;

    letter-spacing: 0.5px;   /*  Slight spacing for labels */

  }


  .register-form input,

  .register-form select {

    width: 100%;

    padding: 8px 10px;

    border-radius: 5px;

    border: 1px solid #ccc;

  }


  /* Radio buttons row */

  .radio-row {

    display: flex;

    gap: 20px;

  }


  /* Button */

  .register-form button {

    width: 100%;

    padding: 10px;

    background: #3498db;

    color: white;
```

```css
  border: none;

  border-radius: 5px;

  font-size: 16px;

  cursor: pointer;

  letter-spacing: 0.5px;  /* Button text spacing */

}


.register-form button:hover {

  background: #2980b9;

}


/* Responsive: stack on small screens */

@media (max-width: 768px) {

  .page {

    grid-template-columns: 1fr;

  }

}
```

Code Snapshot:

```css
/* Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: Arial, sans-serif;
}

/* Page background */
body {
  min-height: 100vh;
  background: #f4f7fb;
}

/* Header */
.site-header {
  background: #2c3e50;
  color: white;
  padding: 20px 10px;
  text-align: center;
}

.site-header h1 {
  letter-spacing: 2px;      /*  Letter spacing added */
  text-transform: uppercase;
}

/* Main layout */
.page {
  max-width: 1000px;
  margin: 40px auto;
  padding: 0 20px;
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 30px;
  align-items: start;
}

/* Info card */
.info-card {
  background: #ffffff;
  padding: 25px;
  border-radius: 10px;
  border-left: 6px solid #3498db;
```

Output Snapshot:

File C:/UpgradAssessment/Restaurant/day-3%20problems/Day-3P-1/index.html

MY LEARNING WEBSITE
CSS Selectors, Box Model & Form Styling

About This Page

This page demonstrates external CSS, proper alignment, spacing, background colors, borders, margin, padding, and a styled registration form. The layout is aligned using modern CSS layout techniques.

You can extend this into a real multi-page website later with Home, Products and Contact pages.

Student Registration

Name

Enter your name

Email

Enter your email

Password

Enter password

Gender
○ Male   ○ Female

Course

Select Course

Register

Problem 2:

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Personal Profile Card</title>
    <link rel="stylesheet" href="profile.css">
</head>
<body>

    <div class="profile-card">
        <h1 class="name">Rushabh Bhusanur</h1>
        <h3 class="role">Aspiring Full Stack Developer</h3>
        <p class="bio">
            I am a passionate learner exploring web development technologies.
            I enjoy building clean user interfaces and learning modern frontend concepts.
        </p>
        <button class="contact-btn">Contact Me</button>
    </div>

</body>
</html>
```

CSS:

```
/* Page styling */
body {
    background-color: #f2f5f9;
    font-family: Arial, sans-serif;
```

```css
}


/* Profile Card */
.profile-card {
    width: 300px;
    margin: 100px auto;          /* Margin: space from page edges */
    padding: 20px;               /* Padding: space inside card */
    background-color: #ffffff;    /* Background color */
    border: 2px solid #4a90e2;     /* Border */
    border-radius: 12px;          /* Border radius */
    text-align: center;           /* Text alignment */
}


/* Name */
.name {
    font-size: 24px;
    font-weight: bold;
    letter-spacing: 1px;          /* Typography */
    color: #2c3e50;
    margin-bottom: 8px;
}


/* Role */
.role {
    font-size: 16px;
    font-weight: 600;
    color: #4a90e2;
    margin-bottom: 12px;
    text-decoration: underline;    /* Text decoration */
}
```

```css
/* Bio */
.bio {
    font-size: 14px;
    line-height: 1.6;          /* Typography */
    color: #555;
    margin-bottom: 20px;
}

/* Button */
.contact-btn {
    padding: 10px 16px;
    background-color: #4a90e2;
    color: white;
    border: none;
    border-radius: 6px;
    font-size: 14px;
    cursor: pointer;
}

/* Hover effect */
.contact-btn:hover {
    background-color: #357abd;
}
```

Code Snapshot:

```
File    Edit    View

/* Page styling */
body {
    background-color: #f2f5f9;
    font-family: Arial, sans-serif;
}

/* Profile Card */
.profile-card {
    width: 300px;
    margin: 100px auto;            /* Margin: space from page edges */
    padding: 20px;               /* Padding: space inside card */
    background-color: #ffffff;   /* Background color */
    border: 2px solid #4a90e2;    /* Border */
    border-radius: 12px;         /* Border radius */
    text-align: center;          /* Text alignment */
}

/* Name */
.name {
    font-size: 24px;
    font-weight: bold;
    letter-spacing: 1px;         /* Typography */
    color: #2c3e50;
    margin-bottom: 8px;
}

/* Role */
.role {
    font-size: 16px;
    font-weight: 600;
    color: #4a90e2;
    margin-bottom: 12px;
    text-decoration: underline;   /* Text decoration */
}

/* Bio */
.bio {
    font-size: 14px;
    line-height: 1.6;            /* Typography */
    color: #555;
    margin-bottom: 20px;
}

/* Button */
```
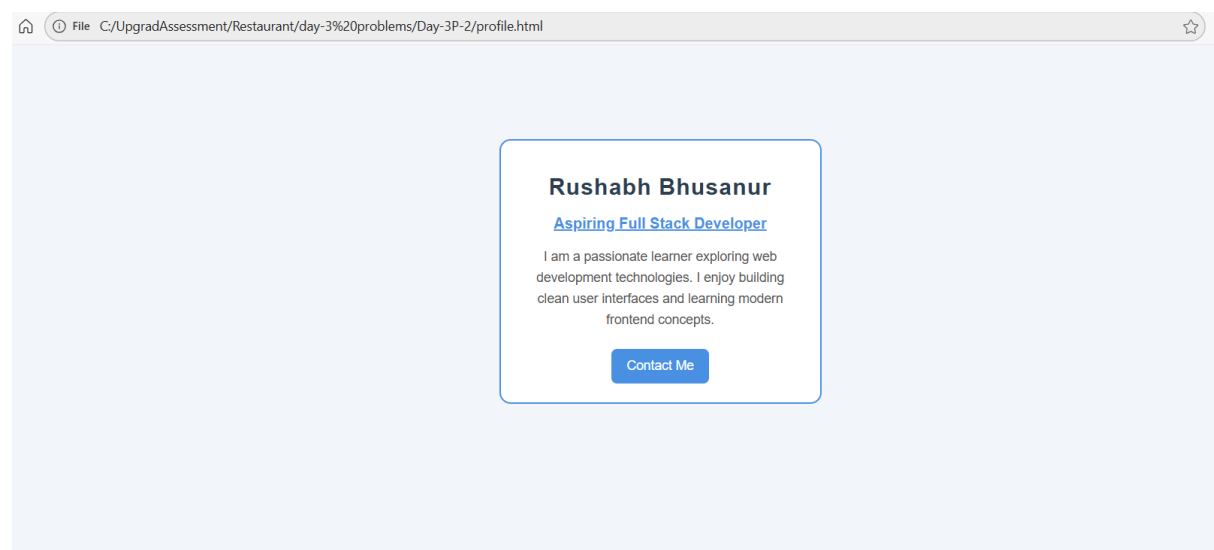
Output Snapshot:

File C:/UpgradAssessment/Restaurant/day-3%20problems/Day-3P-2/profile.html

Rushabh Bhusanur

Aspiring Full Stack Developer

I am a passionate learner exploring web
development technologies. I enjoy building
clean user interfaces and learning modern
frontend concepts.

Contact Me

Problem 3:

Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Home</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>


    <div class="home-container">

        <h1>Welcome to Our Product</h1>

        <p>

            Discover how our product helps you achieve more with powerful and easy-to-use features.

        </p>


        <a href="features.html" class="feature-link">Our Product Features</a>

    </div>


</body>

</html>
```

CSS:

```
/* Common Page Style */

body {

    background-color: #f4f6f8;

    font-family: "Segoe UI", Arial, sans-serif;

    margin: 0;

    padding: 0;

}
```

```css
/* Home Page */

.home-container {
    width: 420px;
    margin: 120px auto;
    padding: 25px;
    background-color: #ffffff;
    border-radius: 12px;
    text-align: center;
    border: 2px solid #ddd;
}

.home-container h1 {
    color: #2c3e50;
    margin-bottom: 10px;
}

.home-container p {
    color: #555;
    margin-bottom: 20px;
    line-height: 1.6;
}

.feature-link {
    display: inline-block;
    padding: 10px 18px;
    background-color: #3f51b5;
    color: white;
    text-decoration: none;
    border-radius: 6px;
}
```

```css
.feature-link:hover {

    background-color: #2c3e9f;

}


/* Features Page Section */

.features-section {

    width: 420px;

    margin: 80px auto;

    padding: 25px;

    background-color: #ffffff;

    border-radius: 12px;

    border: 2px solid #ddd;

}


/* Section Heading */

.features-section h2 {

    text-align: center;

    color: #2c3e50;

    margin-bottom: 15px;

}


/* Feature List */

.feature-list {

    list-style-type: none;

    padding: 0;

    margin: 0;

}


/* Descendant selector */

.features-section li {
```

```css
    background-color: #e8f0fe;

    color: #1a237e;

    padding: 12px;

    margin-bottom: 10px;

    border: 2px solid #3f51b5;

    border-radius: 6px;

    transition: 0.3s;

}


/* Hover Effect */

.features-section li:hover {

    background-color: #3f51b5;

    color: #ffffff;

}


/* Back Link */

.back-link {

    display: block;

    text-align: center;

    margin-top: 15px;

    text-decoration: none;

    color: #3f51b5;

}


.back-link:hover {

    text-decoration: underline;

}
```

Code Snapshot:

File   Edit   View

```css
/* Common Page Style */
body {
    background-color: #f4f6f8;
    font-family: "Segoe UI", Arial, sans-serif;
    margin: 0;
    padding: 0;
}

/* Home Page */
.home-container {
    width: 420px;
    margin: 120px auto;
    padding: 25px;
    background-color: #ffffff;
    border-radius: 12px;
    text-align: center;
    border: 2px solid #ddd;
}

.home-container h1 {
    color: #2c3e50;
    margin-bottom: 10px;
}

.home-container p {
    color: #555;
    margin-bottom: 20px;
    line-height: 1.6;
}

.feature-link {
    display: inline-block;
    padding: 10px 18px;
    background-color: #3f51b5;
    color: white;
    text-decoration: none;
    border-radius: 6px;
}

.feature-link:hover {
    background-color: #2c3e9f;
}

/* Features Page Section */
```
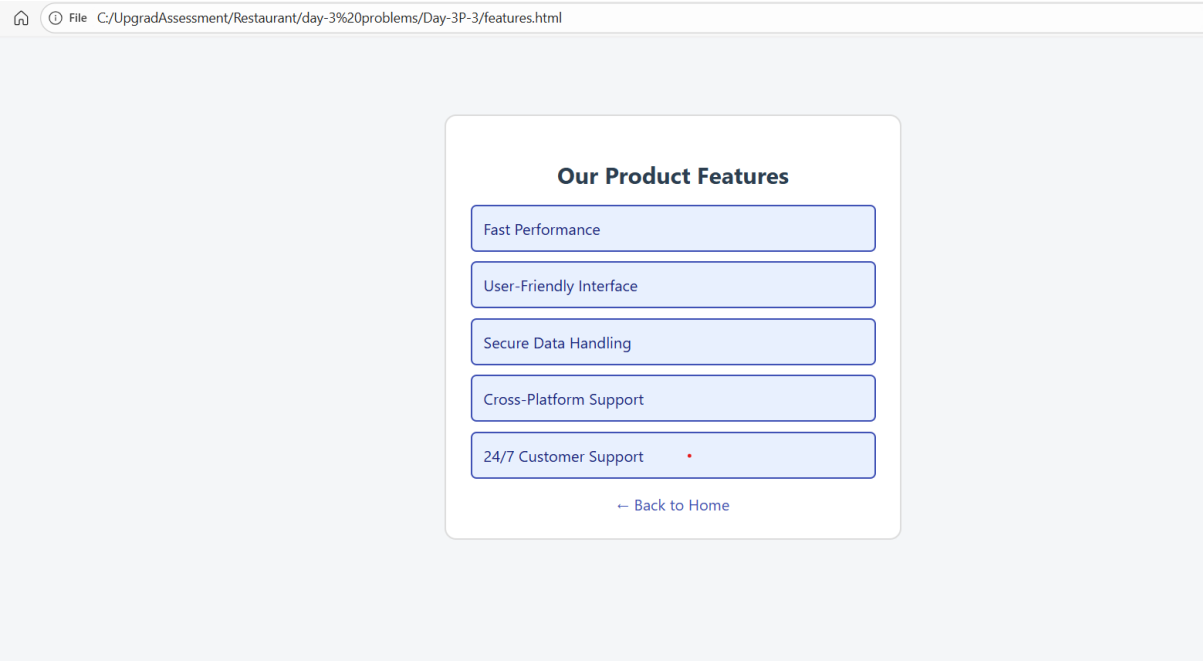
Output Snapshot:

Our Product Features

Fast Performance

User-Friendly Interface

Secure Data Handling

Cross-Platform Support

24/7 Customer Support   .

← Back to Home

Problem 4:

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Modern Responsive Blog</title>
  <link rel="stylesheet" href="blog.css">
</head>
<body>

  <header class="site-header">
    <h1>DevBytes Blog</h1>
    <p>Insights on Web, Cloud & Modern Tech</p>
  </header>

  <main class="blog-container">
    <article class="blog-card">
      <h2>HTML for Beginners</h2>
      <p>

        Start your web development journey by learning the structure of web pages

        using HTML. This guide covers essential tags and best practices.

      </p>
      <a href="#" class="read-more">Read More</a>
    </article>

    <article class="blog-card">
      <h2>CSS Modern Layouts</h2>
      <p>

        Learn how Flexbox and Grid help you build responsive and modern layouts
```

```html
        without complex hacks.
      </p>
      <a href="#" class="read-more">Read More</a>
    </article>


    <article class="blog-card">
      <h2>Responsive Design Tips</h2>
      <p>
        Make your websites look great on all devices using media queries,
        fluid layouts, and flexible typography.
      </p>
      <a href="#" class="read-more">Read More</a>
    </article>


    <article class="blog-card">
      <h2>Cloud Basics Explained</h2>
      <p>
        Understand cloud computing fundamentals and how cloud platforms
        are changing modern application development.
      </p>
      <a href="#" class="read-more">Read More</a>
    </article>
  </main>

</body>
</html>
```

CSS:

```css
/* Reset */
* {
  margin: 0;
```

```css
    padding: 0;

    box-sizing: border-box;

}


/* Page Background */

body {

    min-height: 100vh;

    font-family: "Poppins", "Segoe UI", Arial, sans-serif;

    background: linear-gradient(135deg, #667eea, #764ba2);

}


/* Header */

.site-header {

    text-align: center;

    padding: 40px 20px;

    color: white;

    backdrop-filter: blur(4px);

}


.site-header h1 {

    font-size: 36px;

    letter-spacing: 2px;

    margin-bottom: 8px;

}


.site-header p {

    font-size: 16px;

    opacity: 0.9;

}


/* Blog Layout */
```

```css
.blog-container {

    display: flex;

    flex-wrap: wrap;

    gap: 20px;

    padding: 30px;

}


/* Blog Card */

.blog-card {

    background-color: #ffffff;

    border-radius: 14px;

    padding: 20px;

    flex: 1 1 30%;

    min-width: 260px;

    border-left: 6px solid #ff7a18;

    box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);

    transition: transform 0.2s ease, box-shadow 0.2s ease;

}


/* Card Hover */

.blog-card:hover {

    transform: translateY(-6px);

    box-shadow: 0 16px 35px rgba(0, 0, 0, 0.25);

}


/* Typography */

.blog-card h2 {

    color: #2c3e50;

    margin-bottom: 10px;

    font-size: 20px;

}
```

```css
.blog-card p {
    color: #555;
    line-height: 1.7;
    margin-bottom: 16px;
}

/* Button */
.read-more {
    display: inline-block;
    padding: 8px 14px;
    background: linear-gradient(135deg, #ff7a18, #ffb347);
    color: white;
    text-decoration: none;
    border-radius: 20px;
    font-size: 14px;
    transition: transform 0.2s ease, box-shadow 0.2s ease;
}

.read-more:hover {
    transform: translateY(-2px);
    box-shadow: 0 6px 15px rgba(0, 0, 0, 0.3);
}

/*  Mobile: single column */
@media (max-width: 700px) {
    .site-header h1 {
        font-size: 26px;
    }

    .blog-container {
```

```
        flex-direction: column;

        padding: 20px;

    }


    .blog-card {

        flex: 1 1 100%;

    }

}
```

Code Snapshot:

```css
/* Reset */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

/* Page Background */
body {
    min-height: 100vh;
    font-family: "Poppins", "Segoe UI", Arial, sans-serif;
    background: linear-gradient(135deg, #667eea, #764ba2);
}

/* Header */
.site-header {
    text-align: center;
    padding: 40px 20px;
    color: white;
    backdrop-filter: blur(4px);
}

.site-header h1 {
    font-size: 36px;
    letter-spacing: 2px;
    margin-bottom: 8px;
}

.site-header p {
    font-size: 16px;
    opacity: 0.9;
}

/* Blog Layout */
.blog-container {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    padding: 30px;
}

/* Blog Card */
.blog-card {
    background-color: #ffffff;
```
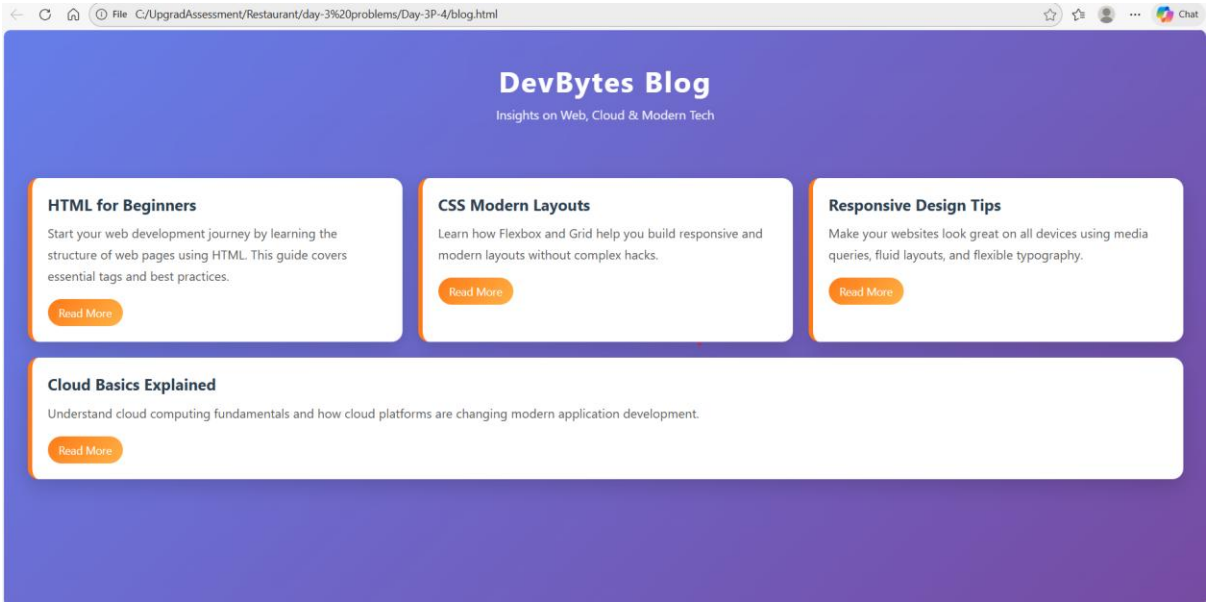
Output Snapshot:

Problem 5:

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Responsive Dashboard</title>
  <link rel="stylesheet" href="dashboard.css">
</head>
<body>

  <div class="dashboard-layout">

    <nav class="sidebar">
      <h2 class="logo">Admin</h2>
      <ul class="nav-links">
        <li>Dashboard</li>
        <li>Users</li>
        <li>Reports</li>
        <li>Settings</li>
      </ul>
    </nav>

    <main class="main-content">
      <h1>Admin Dashboard</h1>

      <section class="cards-container">
        <div class="card">
          <h3>Total Users</h3>
          <p>1,245</p>
```

```html
        </div>

        <div class="card">
          <h3>Revenue</h3>
          <p>$12,340</p>
        </div>

        <div class="card">
          <h3>Active Sessions</h3>
          <p>87</p>
        </div>

        <div class="card">
          <h3>New Orders</h3>
          <p>32</p>
        </div>
      </section>
    </main>

  </div>

</body>
</html>
```

CSS:

```css
/* Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
```

```css
/* Base */
body {
    font-family: "Segoe UI", Arial, sans-serif;
    background-color: #f4f6f8;
}

/* Layout */
.dashboard-layout {
    display: flex; /* display property */
    min-height: 100vh;
}

/* Sidebar */
.sidebar {
    background-color: #2c3e50;  /* Sidebar background color */
    color: white;
    padding: 20px;
    width: 220px;
}

.logo {
    text-align: center;
    margin-bottom: 20px;
    letter-spacing: 1px;
}

.nav-links {
    list-style: none;
}
```

```css
.nav-links li {

    padding: 10px;

    margin-bottom: 8px;

    background-color: rgba(255, 255, 255, 0.1);

    border-radius: 6px;

}


/* Main content */

.main-content {

    flex: 1;

    padding: 20px;

}


.main-content h1 {

    margin-bottom: 20px;

    color: #2c3e50;

}


/* Cards Layout */

.cards-container {

    display: flex; /* Flexbox for cards */

    flex-wrap: wrap;

    gap: 20px;

}


/* Info Cards */

.card {

    background-color: #ffffff;

    border: 2px solid #ddd;  /* Border */

    border-radius: 10px;

    padding: 20px;        /* Padding */
```

```css
    margin: 0;          /* Margin handled by gap */
    flex: 1 1 200px;
}


.card h3 {
    margin-bottom: 8px;
    color: #34495e;
}


.card p {
    font-size: 20px;
    font-weight: bold;
    color: #3498db;
}


/*  Mobile Responsive */
@media (max-width: 768px) {

    /* Sidebar becomes top navigation */
    .dashboard-layout {
        flex-direction: column;
    }


    .sidebar {
        width: 100%;
        display: flex;
        align-items: center;
        justify-content: space-between;
    }


    .nav-links {
```

```css
    display: flex;

    gap: 10px;

  }


  .nav-links li {

    margin-bottom: 0;

    padding: 8px 12px;

  }


  /* Cards stack vertically */

  .cards-container {

    flex-direction: column;

  }

}
```

Code Snapshot:

```css
/* Reset */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

/* Base */
body {
    font-family: "Segoe UI", Arial, sans-serif;
    background-color: #f4f6f8;
}

/* Layout */
.dashboard-layout {
    display: flex; /* display property */
    min-height: 100vh;
}

/* Sidebar */
.sidebar {
    background-color: #2c3e50;  /* Sidebar background color */
    color: white;
    padding: 20px;
    width: 220px;
}

.logo {
    text-align: center;
    margin-bottom: 20px;
    letter-spacing: 1px;
}

.nav-links {
    list-style: none;
}

.nav-links li {
    padding: 10px;
    margin-bottom: 8px;
    background-color: rgba(255, 255, 255, 0.1);
    border-radius: 6px;
}
```

Output Snapshot: