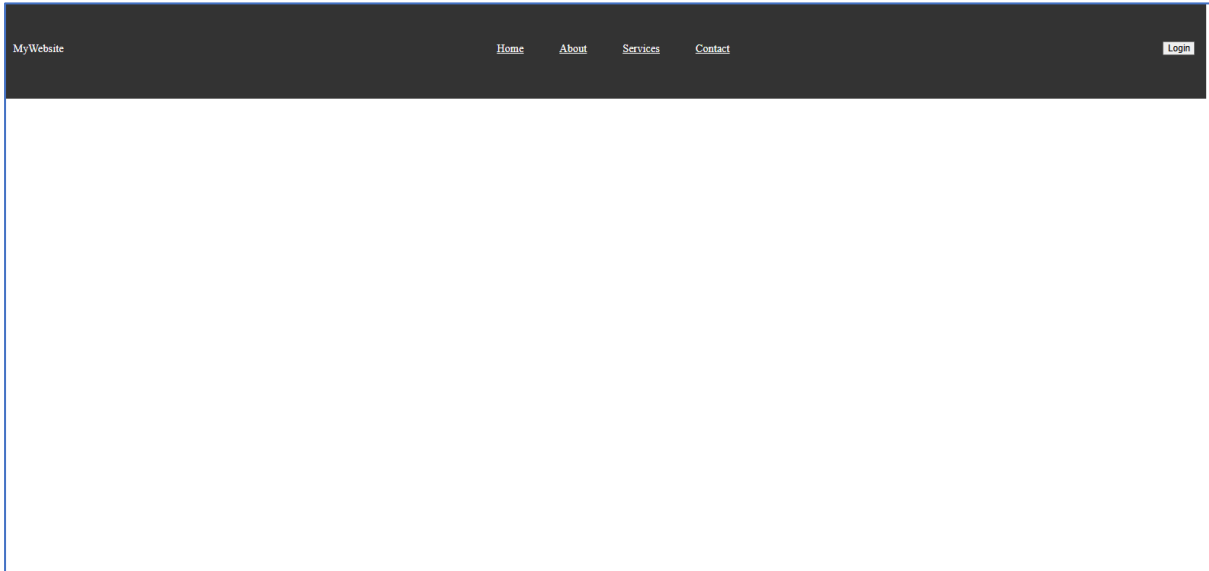


Day 6 – Flexbox Assignment

GitHub link for Assignment: <https://github.com/HappyHarika1/Front-End-Projects/tree/main/Assignments/Day6-flexbox>

Part 1 => Exercise 1



P1-E1.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <title>Nav Bar</title>

  </head>

  <body>

    <style>

      /* EXERCISE -1 */
```

```
.navbar {  
  display: flex;  
  align-items: center;  
  justify-content: space-between;  
  background-color: #333;  
  color: white;  
  padding: 1rem;  
}
```

```
.nav-links {  
  display: flex;  
  list-style: none;  
  gap: 20px;  
  padding: 2rem;  
}
```

```
.nav-links li {  
  gap: 10px;  
  margin: 0 1rem;  
  color: white;  
}
```

```
a {  
  color: white;  
}
```

</style>

<nav class="navbar">

```
<div class="logo">MyWebsite</div>

<ul class="nav-links">

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

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

  <li><a href="#">Services</a></li>

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

</ul>

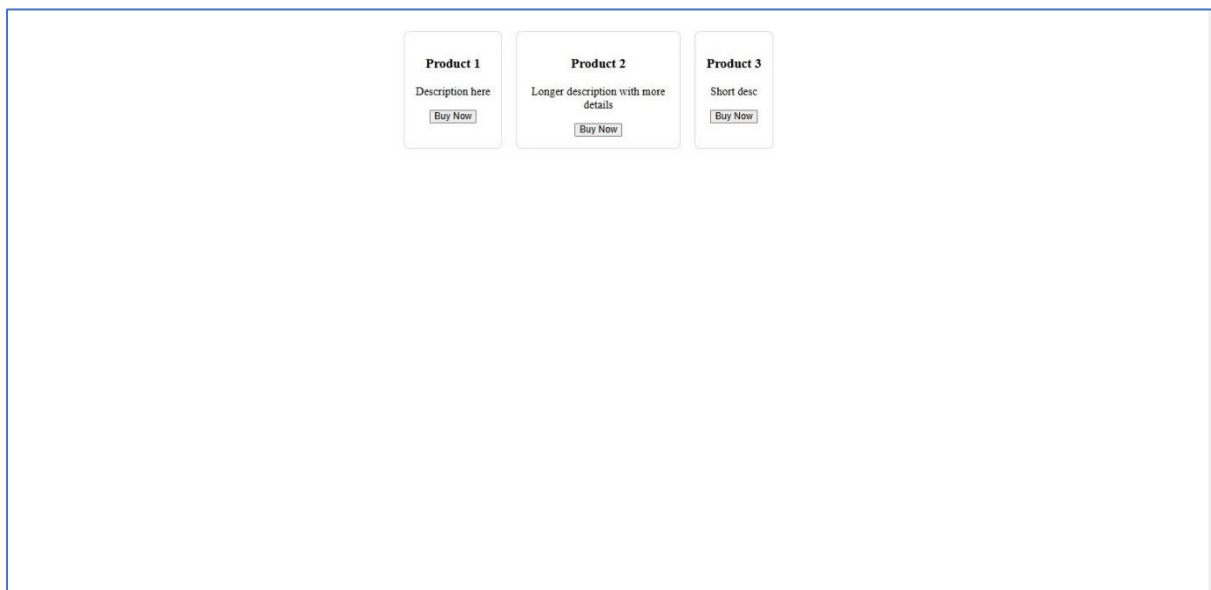
<button class="login-btn">Login</button>

</nav>

</body>

</html>
```

Part 1 => Exercise 2



P1-E2.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <title>Document</title>

  </head>

  <body>

    <style>

      .card-container {

        display: flex;

        flex-wrap: wrap;

        gap: 20px;

        padding: 2rem;

        justify-content: center;

      }

      .card {

        justify-content: space-evenly;

        max-width: 200px;

        background: white;

        border: 1px solid #ddd;

        border-radius: 8px;

        padding: 1rem;

        text-align: center;

      }

    </style>
```

```
<div class="card-container">

  <div class="card">

    <h3>Product 1</h3>

    <p>Description here</p>

    <button>Buy Now</button>

  </div>

  <div class="card">

    <h3>Product 2</h3>

    <p>Longer description with more details</p>

    <button>Buy Now</button>

  </div>

  <div class="card">

    <h3>Product 3</h3>

    <p>Short desc</p>

    <button>Buy Now</button>

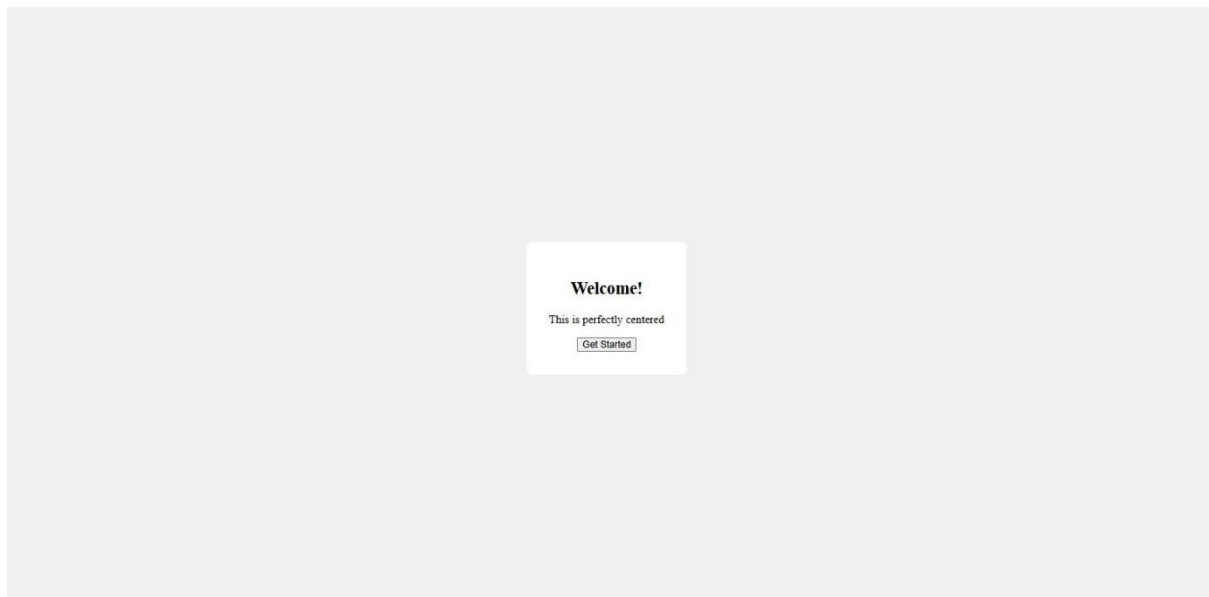
  </div>

</div>

</body>

</html>
```

Part 1 => Exercise 3



P1-E3.html

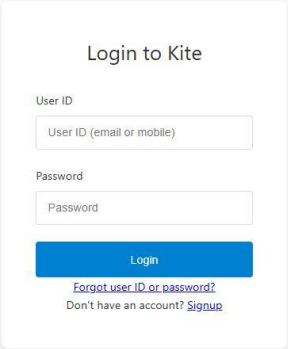
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <style>
      .center-container {
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh; /* Full screen height */
        background-color: #f0f0f0;
      }
    </style>
  </body>
</html>
```

```
.centered-content {  
  background: white;  
  padding: 2rem;  
  border-radius: 8px;  
  text-align: center;  
}  
</style>  
<div class="center-container">  
  <div class="centered-content">  
    <h2>Welcome!</h2>  
    <p>This is perfectly centered</p>  
    <button>Get Started</button>  
  </div>  
</div>  
</body>  
</html>
```

Part 2 => Task 1

Kite (Without Adding Responsive Behaviour @media)

by Zerodha



The image shows a login form titled "Login to Kite" centered on a light gray background. The form is a white box with a subtle shadow. It contains two input fields: "User ID" with a placeholder "User ID (email or mobile)" and "Password" with a placeholder "Password". Below these fields is a blue "Login" button. At the bottom of the form, there are two links: "Forgot user ID or password?" and "Don't have an account? [Signup](#)".

P2-T1.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

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

  <title>Login | Kite by Zerodha</title>

  <style>

    /* Reset default styles */

    * {

      margin: 0;

      padding: 0;

      box-sizing: border-box;

    }

    body {

      font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto,

        sans-serif;
```



```
background-color: #f8f9fa;  
color: #333;  
line-height: 1.6;  
}
```

```
/* Step 3: Page Container- Full Height Layout */
```

```
.page-container {  
  height: 100vh;  
  display: flex;  
  flex-direction: column;  
}
```

```
.header {  
  background-color: white;  
  padding: 2rem;  
  border-bottom: 1px solid #e9ecef;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
}
```

```
.logo-section {  
  text-align: center;  
}
```

```
.brand-name {  
  font-size: 2.5rem;
```

```
font-weight: 300;
color: #387ed1;
margin-bottom: 0.25rem;
}
```

```
.brand-tagline {
  font-size: 0.9rem;
  color: #666;
}
```

```
.main-content {
  flex-grow: 1;
  display: flex;
  justify-content: center;
  align-items: center;
  padding: 2rem;
}
```

```
.login-box {
  background: white;
  padding: 3rem;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 400px; /* Don't get too wide on large screens */
}
```

```
.login-title {
```

```
font-size: 1.8rem;  
font-weight: 400;  
color: #333;  
margin-bottom: 2rem;  
text-align: center;  
}
```

```
.login-form {  
  display: flex;  
  flex-direction: column;  
  gap: 1.5rem;  
}
```

```
.form-group {  
  display: flex;  
  flex-direction: column;  
  gap: 0.5rem;  
}
```

```
.form-group input {  
  padding: 0.875rem 1rem;  
  border: 1px solid #ddd;  
  border-radius: 4px;  
  font-size: 1rem;  
  transition: border-color 0.3s ease;  
}
```

```
.form-group input:focus {  
  outline: none;
```

```
border-color: #387ed1;
box-shadow: 0 0 0 2px rgba(56, 126, 209, 0.1);
}
```

```
.login-btn {
background-color: #387ed1;
color: white;
border: none;
padding: 1rem;
font-size: 1rem;
font-weight: 500;
border-radius: 4px;
cursor: pointer;
transition: background-color 0.3s ease;
}
```

```
.help-section,
.signup-section {
text-align: center;
}
```

```
footer {
justify-content: center;
text-align: center;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="page-container">

  <!-- Header with logo-->

  <header class="header">

    <div class="logo-section">

      <h1 class="brand-name">

        Kite (Without Adding Responsive Behaviour @media)

      </h1>

      <p class="brand-tagline">by Zerodha</p>

    </div>

  </header>


  <!-- Main content area-->

  <main class="main-content">

    <div class="login-box">

      <h2 class="login-title">Login to Kite</h2>

      <form class="login-form">

        <div class="form-group">

          <label for="userid">User ID</label>

          <input

            type="text"

            id="userid"

            placeholder="User ID (email or mobile)"

          />

        </div>

        <div class="form-group">

          <label for="password">Password</label>

          <input type="password" id="password" placeholder="Password" />

        </div>

      </form>

    </div>

  </main>

</div>
```

```
<button type="submit" class="login-btn">Login</button>
</form>
<div class="help-section">
  <a href="#" class="help-link">Forgot user ID or password?</a>
</div>
<div class="signup-section">
  <p>
    Don't have an account? <a href="#" class="signup-link">Signup</a>
  </p>
</div>
</div>
</main>
<!-- Footer-->
<footer class="footer">
  <p>NSE & BSE | SEBI Reg: INZ000031633</p>
</footer>
</div>
</body>
</html>
```

P2-T2

Kite (Adding Responsive Behaviour @media)

by Zerodha

Login to Kite

User ID

User ID (email or mobile)

Password

Password

Login

[Forgot user ID or password?](#)

Don't have an account? [Signup](#)

NSE & BSE | SEBI Reg: INZ000031633

P2-T2.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

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

```
<title>Login | Kite by Zerodha</title>
```

```
<style>
```

```
/* Reset default styles */
```

```
* {
```

```
margin: 0;
```

```
padding: 0;
```

```
box-sizing: border-box;
```

```
}
```

```
body {
```

```
font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto,
```

```
sans-serif;
```

```
background-color: #f8f9fa;  
color: #333;  
line-height: 1.6;  
}
```

```
/* Step 3: Page Container- Full Height Layout */
```

```
.page-container {  
  height: 100vh;  
  display: flex;  
  flex-direction: column;  
}
```

```
.header {  
  background-color: white;  
  padding: 2rem;  
  border-bottom: 1px solid #e9ecef;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
}
```

```
.logo-section {  
  text-align: center;  
}
```

```
.brand-name {  
  font-size: 2.5rem;
```



```
font-weight: 300;
color: #387ed1;
margin-bottom: 0.25rem;
}
```

```
.brand-tagline {
  font-size: 0.9rem;
  color: #666;
}
```

```
.main-content {
  flex-grow: 1;
  display: flex;
  justify-content: center;
  align-items: center;
  padding: 2rem;
}
```

```
.login-box {
  background: white;
  padding: 3rem;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 400px; /* Don't get too wide on large screens */
}
```

```
.login-title {
```

```
font-size: 1.8rem;
font-weight: 400;
color: #333;
margin-bottom: 2rem;
text-align: center;
}
```

```
.login-form {
display: flex;
flex-direction: column;
gap: 1.5rem;
}
```

```
.form-group {
display: flex;
flex-direction: column;
gap: 0.5rem;
}
```

```
.form-group input {
padding: 0.875rem 1rem;
border: 1px solid #ddd;
border-radius: 4px;
font-size: 1rem;
transition: border-color 0.3s ease;
}
```

```
.form-group input:focus {
outline: none;
```

```
border-color: #387ed1;
box-shadow: 0 0 0 2px rgba(56, 126, 209, 0.1);
}
```

```
.login-btn {
background-color: #387ed1;
color: white;
border: none;
padding: 1rem;
font-size: 1rem;
font-weight: 500;
border-radius: 4px;
cursor: pointer;
transition: background-color 0.3s ease;
}
```

```
.help-section,
.signup-section {
text-align: center;
}
```

```
footer {
justify-content: center;
text-align: center;
}
```

```
@media (max-width: 768px) {
body {
```

```
    font-size: 18px;
}
```

```
.page-container {
    padding: 20px;
}
}
```

```
@media (max-width: 480px) {
    body {
        font-size: 14px;
    }
}
```

```
.page-container {
    padding: 10px;
    margin: 0;
}

.login-btn {
    padding: 10px 20px;
    font-size: 16px;
}
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="page-container">
```

```
<!-- Header with logo-->
```

```
<header class="header">
```

```
<div class="logo-section">

  <h1 class="brand-name">Kite (Adding Responsive Behaviour @media)</h1>

  <p class="brand-tagline">by Zerodha</p>

</div>

</header>
```

```
<!-- Main content area-->

<main class="main-content">

  <div class="login-box">

    <h2 class="login-title">Login to Kite</h2>

    <form class="login-form">

      <div class="form-group">

        <label for="userid">User ID</label>

        <input

          type="text"

          id="userid"

          placeholder="User ID (email or mobile)"

        />

      </div>

      <div class="form-group">

        <label for="password">Password</label>

        <input type="password" id="password" placeholder="Password" />

      </div>

      <button type="submit" class="login-btn">Login</button>

    </form>

    <div class="help-section">

      <a href="#" class="help-link">Forgot user ID or password?</a>

    </div>
```

```
<div class="signup-section">

  <p>

    Don't have an account? <a href="#" class="signup-link">Signup</a>

  </p>

</div>

</div>

</main>

<!-- Footer-->

<footer class="footer">

  <p>NSE & BSE | SEBI Reg: INZ000031633</p>

</footer>

</div>

</body>

</html>
```

Layout Comparison

Why Flexbox for Zerodha Login Page Design

1. Why Flexbox is Perfect for Zerodha Login

Flexbox is ideal for designing the Zerodha login layout due to its simplicity, flexibility, and responsiveness. Here are five specific reasons:

1. **Simple Centering**: Vertically and horizontally centering the login form is easy with `align-items` and `justify-content`.
2. **Responsive Layouts**: Flexbox adjusts smoothly to different screen sizes with minimal code.
3. **Direction Control**: Easily switch from column to row layouts with `flex-direction`.

4. ****Alignment Options****: Perfect control over alignment of individual elements using `align-self` and `justify-content`.

5. ****No Float or Clearfix Needed****: Layouts can be built without dealing with `float`, `clear`, or manual spacing fixes.

2. Before/After Code Examples

Before (Using Manual Margins for Centering)

```
```html
<div class="login-container">
 <div class="login-box">
 <form>...</form>
 </div>
</div>
```

```
<style>
.login-container {
 margin-top: 150px;
 text-align: center;
}
</style>
...`
```

### ## 3. After (Using Flexbox)

```
<div class="login-container">
```

```
<div class="login-box">
 <form>...</form>
</div>
</div>
```

```
<style>
.login-container {
 display: flex;
 justify-content: center;
 align-items: center;
 height: 100vh;
}
</style>
```

### ## 3. What Problems Flexbox Solves

Vertical centering, which used to be a pain with margins or transforms.

Even spacing between elements without hardcoding margin values.

Flexibility for both desktop and mobile views with minimal media queries.

Ordering elements visually without changing HTML structure using order.

### ## Why NOT CSS Grid for Zerodha Login

Overkill for simple one-column layouts like a login form.



Grid is ideal when you have two-dimensional layouts (rows and columns) like dashboards or complex forms.

Extra syntax like `grid-template-\*`, `place-items`, and row/column lines are unnecessary here.

### **## When CSS Grid Would Be a Good Choice**

Multi-column page layouts.

Responsive dashboards with charts/cards.

Complex nested layouts with both vertical and horizontal alignment.

### **## Why NOT Bootstrap for Zerodha Login**

Requires loading a full CSS framework

Adds many class names just to achieve simple layout behavior.

Less control and more abstraction, which may be unnecessary for a lightweight, custom design like Zerodha.

### **## When Bootstrap Would Be a Good Choice**

Rapid prototyping for internal tools.

When consistent, predefined components (buttons, cards, navbars) are needed quickly.

Large-scale projects with many non-designers contributing.

## ## Conclusion

For the Zerodha login page — a simple, single-column layout — Flexbox is the most efficient, readable, and flexible solution. CSS Grid and Bootstrap have their strengths, but they are better suited for more complex or large-scale applications.

