**WTL 1 to 6 Assignments**

**HTML + CSS**

1. Design a Company Registration Form with CSS styles that includes all of the form tag's features. Show the relevant Form output in a compatible browser.

**Ans: -**

<!DOCTYPE html>

<html lang="en">

<head>

    <title>Company Registration Form</title>

    <!-- <link rel="stylesheet" href="style1.css"> -->

    <style>

        .Container {

    max-width: 500px;

    margin: 0 auto;

    padding: 20px;

    background-color: skyblue;

  }

  .title {

    text-align: center;

    margin-bottom: 20px;

  }

  .content {

    background-color: SKYBLUE;

    padding: 20px;

  }

  .form {

    margin-bottom: 20px;

    background-color: skyblue;

  }

  .label {

    display: block;

    font-weight: bold;

    margin-bottom: 5px;

  }

  input[type="text"],

  input[type="number"],

  input[type="date"],

  input[type="email"],

  input[type="password"],

  select {

    width: 100%;

    padding: 10px;

    margin-bottom: 10px;

    border: 1px solid #ccc;

    border-radius: 4px;

  }

  .button {

    text-align: center;

  }

  button[type="submit"] {

    padding: 10px 20px;

    background-color: #4CAF50;

    color: #fff;

    border: none;

    border-radius: 4px;

    cursor: pointer;

  }

  button[type="submit"]:hover {

    background-color: #45a049;

  }

  br {

    clear: both;

  }

    </style>

</head>

<body>

    <div class="Container">

        <div class="title">

            <h1>COMPANY REGISTRATION FORM</h1>

        </div>

        <div class="content" >

            <br>

            <form action="" method="post">

                <div class="first-name">

                    <label><b>First Name:</b></label>

                    <input type="text" name="First Name" required/>

                </div>

                <br>

                <div class="middle-name">

                    <label><b>Middle Name:</b></label>

                    <input type="text" name="Middle Name" required/>

                </div>

                <br>

                <div class="last-name">

                    <label><b>Last Name:</b></label>

                    <input type="text" name="Last Name" required/>

                </div>

                <br>

                <div class="gender">

                    <label><b>Gender:</b></label>

                    <select>

                        <option value="Gender">Gender</option>

                        <option value="Male">Male</option>

                        <option value="Female">Female</option>

                        <option value="Transgender">Transgender</option>

                    </select>

                </div>

                <br>

                <div class="phone-number">

                    <label><b>Phone No:</b></label>

                    <input type="number" name="number" required />

                </div>

                <br>

                <div class="date-of-birth">

                    <label><b>Date of Birth:</b></label>

                    <input type="date" name="month" required>

                </div>

                <br>

                <div class="email">

                    <label><b>Email:</b></label>

                    <input type="email" name="email" required />

                </div>

                <br>

                <div class="username">

                    <label><b>User Name:</b></label>

                    <input type="text" name="UserName" required/>

                </div>

                <br>

                <div class="password">

                    <label><b>Password:</b></label>

                    <input type="password" name="password" required />

                </div>

                <br>

                <div class="confirm-password">

                    <label><b>Confirm Password:</b></label>

                    <input type="password" name="Cpassword" required />

                </div>

                <br>

                <div class="button">

                    <input type="submit" value="Register">

                </div>

                <br>

            </form>

        </div>

    </div>

</body>

</html>

**A]** Create an HTML script for Coffee: shop online web content utilizing HTML tags and CSS capabilities. Use a coffee cup and relevant images to enhance the presentation. Provide a coffee type selection option, as well as a rate for the coffee type pick. Tables should be used whenever possible.

**Ans: - Starbucks Cofee Shop**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Starbucks</title>

  <style>

    @import url("https://fonts.googleapis.com/css2?family=Montserrat:wght@300;400;500;700&family=Nunito+Sans:ital,wght@0,400;0,700;0,800;1,300;1,700&family=Poppins:wght@400;500;600;700;800;900&display=swap");

    \* {

      margin: 0;

      padding: 0;

      box-sizing: border-box;

      font-family: "Poppins", sans-serif;

    }

    section {

      position: relative;

      width: 100%;

      min-height: 100vh;

      padding: 100px;

      display: flex;

      flex-direction: column;

      justify-content: center;

      align-items: center;

      background: #fff;

    }

    header {

      position: absolute;

      top: 0;

      left: 0;

      width: 100%;

      padding: 20px 10px;

      display: flex;

      justify-content: space-between;

      align-items: center;

    }

    header .logo {

      position: relative;

      max-width: 80px;

    }

    header ul {

      position: relative;

      display: flex;

    }

    header ul li {

      list-style: none;

    }

    header ul li a {

      display: inline-block;

      color: #333;

      font-weight: 800;

      margin-left: 40px;

      text-decoration: none;

    }

    .container {

      position: relative;

      width: 100%;

      display: flex;

      justify-content: space-between;

      align-items: center;

    }

    .container .text-box {

      position: relative;

      max-width: 600px;

      text-align: center;

    }

    .container .text-box h2 {

      color: #333;

      font-size: 2.5em;

      font-weight: 500;

    }

    .container .text-box h2 span {

      color: #017143;

      font-size: 1.2em;

      font-weight: 900;

    }

    .container .text-box p {

      color: #333;

      margin-top: 20px;

    }

    .container .text-box a {

      display: inline-block;

      margin-top: 20px;

      padding: 8px 20px;

      background: #017143;

      color: #fff;

      border-radius: 40px;

      font-weight: 500;

      letter-spacing: 1px;

      text-decoration: none;

    }

    .container .img-box {

      width: 100%;

      display: flex;

      justify-content: flex-end;

      padding-right: 50px;

      margin-top: 50px;

    }

    .container .img-box img {

      max-width: 100%;

    }

    .content {

      padding: 40px;

      text-align: center;

      background: #f9f9f9;

      margin-top: 20px;

    }

    .content h2 {

      font-size: 2em;

      color: #333;

    }

    .content p {

      color: #555;

      margin-top: 10px;

    }

    .content img {

      max-width: 100%;

      margin-top: 20px;

    }

    .thumb {

      position: absolute;

      left: 50%;

      bottom: 20px;

      transform: translateX(-50%);

      display: flex;

    }

    .thumb li {

      list-style: none;

      display: inline-block;

      margin: 0 20px;

      padding: 20;

      cursor: pointer;

      transition: 0.5s;

    }

    .thumb li:hover {

      transform: translateY(-15px);

    }

    .thumb li img {

      max-width: 60px;

      height: auto;

    }

    .social {

      position: absolute;

      top: 50%;

      right: 30px;

      transform: translateY(-50%);

      display: flex;

      justify-content: center;

      align-items: center;

      flex-direction: column;

    }

    .social li {

      list-style: none;

    }

    .social li a {

      display: inline-block;

      margin: 5px 0;

      transform: scale(0.6);

      filter: invert(1);

    }

    .circle {

      position: absolute;

      top: 0;

      left: 0;

      width: 100%;

      height: 100%;

      background: #017143;

      clip-path: circle(600px at right 800px);

    }

  </style>

</head>

<body>

  <section>

    <div class="circle"></div>

    <header>

      <a href="#"><img src="data:image/png;base64," class="logo" alt="Starbucks Logo"></a>

      <ul>

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

        <li><a href="#menu">Menu</a></li>

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

      </ul>

    </header>

    <div class="container">

      <div class="text-box">

        <h2>It's not just a Coffee <br>It's <span>Starbucks</span></h2>

        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolor modi consequatur nulla, fugiat odit rerum quaerat illo at! Nihil velit tempore debitis. Doloribus quasi perspiciatis fuga nulla aspernatur necessitatibus adipisci.</p>

        <a href="#">Learn More</a>

      </div>

      <div class="img-box">

        <img src="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pexels.com%2Fsearch%2Fstarbucks%2F&psig=AOvVaw3nrhizWQD1UhbJW-sw3SZ-&ust=1693579825404000&source=images&cd=vfe&opi=89978449&ved=0CBAQjRxqFwoTCLiQj9GSh4EDFQAAAAAdAAAAABAE" class="starbucks" alt="Starbucks Image">

      </div>

    </div>

    <ul class="thumb">

      <li><img src="data:image/jpeg;base64," onclick="imgSlider('img1.png');changeCircleColor('#017143')" alt="Thumbnail 1"></li>

      <li><img src="https://stories.starbucks.com/uploads/2023/05/South-Africa-768x1024.jpg" onclick="imgSlider('img2.png');changeCircleColor('#0eb7495')" alt="Thumbnail 2"></li>

      <li><img src="https://stories.starbucks.com/uploads/2023/05/Mumbai-1024x673.jpg" onclick="imgSlider('img3.png');changeCircleColor('#d752b1')" alt="Thumbnail 3"></li>

    </ul>

    <ul class="social">

      <li><a href="#"><img src="data:image/png;base64," alt="Facebook"></a></li>

      <li><a href="#"><img src="data:image/jpeg;base64," alt="Instagram"></a></li>

      <li><a href="#"><img src="data:image/jpeg;base64," alt="Twitter"></a></li>

    </ul>

  </section>

  <div class="content" id="home">

    <h2>Welcome to Starbucks</h2>

    <p>Discover the finest coffee experience at Starbucks.</p>

    <img src="https://stories.starbucks.com/\_next/image/?url=https%3A%2F%2Fstories.starbucks.com%2Fuploads%2F2023%2F05%2FSBX20230509-Starbucks-stores-around-the-world-feature.jpg&w=1920&q=75" alt="Home Image">

  </div>

  <div class="content" id="menu">

    <h2>Our Menu</h2>

    <p>Explore our delicious menu items, from coffee to pastries.</p>

    <img src="https://d4t7t8y8xqo0t.cloudfront.net/resized/1080X/restaurant%2F221416%2Fmenu%2Fmenu01556865274144.jpg" alt="Menu Image">

  </div>

  <div class="content" id="contact">

    <h2>Contact Us</h2>

    <p>Have questions or feedback? Reach out to us.</p>

    <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT209tY5BDBZJWWs4xDXSnz8Oi2xiG0P\_aOlBm3nwhX2Q&s" alt="Contact Image">

  </div>

</body>

</html>

**B]** Create an HTML Script for a Car Service Center utilizing HTML tags and CSS features: Enhance content with numerous car workshop photographs and car accessories, as well as details on various car servicing packages.

**Ans: -**

<!DOCTYPE html>

<html>

<head>

  <style>

    body {

      font-family: Arial, sans-serif;

      background-color: #f5f5f5;

      margin: 0;

      padding: 0;

    }

    h1 {

      text-align: center;

      margin-top: 30px;

      color: #333;

    }

    .container {

      max-width: 800px;

      margin: 0 auto;

      padding: 20px;

      background-color: #fff;

      border-radius: 8px;

      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

    }

    .car-workshop-photos {

      text-align: center;

      margin-top: 20px;

    }

    .car-workshop-photos img {

      display: inline-block;

      margin: 10px;

      max-width: 100%;

      border-radius: 8px;

      box-shadow: 0 0 5px rgba(0, 0, 0, 0.2);

    }

    h2 {

      color: #333;

      margin-top: 30px;

    }

    .car-accessories {

      text-align: center;

      margin-top: 20px;

    }

    .car-accessories img {

      display: inline-block;

      margin: 10px;

      max-width: 150px;

      border-radius: 8px;

      box-shadow: 0 0 5px rgba(0, 0, 0, 0.2);

    }

    .car-packages {

      margin-top: 30px;

    }

    .package {

      margin-bottom: 20px;

      padding: 20px;

      background-color: #f9f9f9;

      border-radius: 8px;

      box-shadow: 0 0 5px rgba(0, 0, 0, 0.2);

    }

    .package h3 {

      margin-bottom: 10px;

      color: #333;

    }

    .package p {

      margin-bottom: 5px;

      color: #555;

    }

    .package ul {

      list-style-type: disc;

      margin-left: 20px;

      color: #555;

    }

    .package p:last-child {

      margin-top: 10px;

    }

    .order-btn {

      background-color: #4CAF50;

      color: white;

      border: none;

      padding: 10px 20px;

      font-size: 16px;

      cursor: pointer;

      border-radius: 4px;

      display: block;

      margin: 20px auto;

    }

    .order-btn:hover {

      background-color: #45a049;

    }

  </style>

</head>

<body>

  <div class="container">

    <h1>Welcome to Our Car Service Center</h1>

    <div class="car-workshop-photos">

      <img src="data:image/jpeg;base64," alt="Car Workshop Photo">

      <img src="data:image/jpeg;base64," alt="Car Workshop Photo">

      <img src="data:image/jpeg;base64," alt="Car Workshop Photo">

    </div>

    <h2>Car Accessories</h2>

    <div class="car-accessories">

      <img src="https://img.freepik.com/free-photo/different-car-accessories-composition\_23-2149030385.jpg?size=626&ext=jpg" alt="Car Accessory">

      <img src="https://images.unsplash.com/photo-1557245526-45dc0f1a8745?ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8M3x8Y2FyJTIwYWNjZXNzb3JpZXN8ZW58MHx8MHx8fDA%3D&auto=format&fit=crop&w=500&q=60" alt="Car Accessory">

      <img src="https://img.freepik.com/free-photo/different-car-accessories-composition\_23-2149030385.jpg?size=626&ext=jpg" alt="Car Accessory">

    </div>

    <h2>Car Servicing Packages</h2>

    <div class="car-packages">

      <div class="package">

        <h3>Basic Package</h3>

        <p>Includes:</p>

        <ul>

          <li>Engine oil change</li>

          <li>Oil filter replacement</li>

          <li>Tire rotation</li>

          <li>Basic inspection</li>

        </ul>

        <p>Price: $99.99</p>

      </div>

      <div class="package">

        <h3>Standard Package</h3>

        <p>Includes:</p>

        <ul>

          <li>Engine oil change</li>

          <li>Oil filter replacement</li>

          <li>Tire rotation</li>

          <li>Brake inspection and cleaning</li>

          <li>Fluid top-up</li>

        </ul>

        <p>Price: $149.99</p>

      </div>

      <div class="package">

        <h3>Premium Package</h3>

        <p>Includes:</p>

        <ul>

          <li>Engine oil change</li>

          <li>Oil filter replacement</li>

          <li>Tire rotation</li>

          <li>Brake inspection and cleaning</li>

          <li>Fluid top-up</li>

          <li>Spark plug replacement</li>

          <li>Full vehicle inspection</li>

        </ul>

        <p>Price: $199.99</p>

      </div>

    </div>

    <button class="order-btn">Place Service Order</button>

  </div>

</body>

</html>

**C]** Create an HTML Script for a Flower Shop utilising HTML tags and CSS features: CSS Selectors with Optional Beautification demonstrate output with a variety of floral photos and the available flower stock in the floweriest shop. Provide animation using CSS.

**Ans: -**

<!DOCTYPE html>

<html>

<head>

  <style>

    body {

      font-family: Arial, sans-serif;

    }

    h1 {

      text-align: center;

      margin-top: 20px;

    }

    .container {

      max-width: 800px;

      margin: 0 auto;

      padding: 20px;

    }

    .flower-photo {

      display: block;

      margin: 10px auto;

      max-width: 400px;

    }

    .flower-stock {

      margin-top: 20px;

    }

    .flower-category {

      margin-bottom: 10px;

      font-weight: bold;

    }

    .flower-item {

      display: inline-block;

      margin: 10px;

      text-align: center;

      width: 150px;

    }

    .flower-item img {

      max-width: 100px;

      border-radius: 50%;

      transition: transform 0.3s ease-in-out;

    }

    .flower-item img:hover {

      transform: scale(1.2);

    }

    .animation-example {

      text-align: center;

      margin-top: 20px;

    }

    .animation-example img {

      max-width: 200px;

      animation: flower-animation 4s infinite;

    }

    @keyframes flower-animation {

      0% {

        transform: rotate(0deg);

      }

      50% {

        transform: rotate(180deg);

      }

      100% {

        transform: rotate(360deg);

      }

    }

  </style>

</head>

<body>

  <div class="container">

    <h1>Welcome to the Floweriest Shop</h1>

    <h2>Floral Photos</h2>

    <img class="flower-photo" src="data:image/jpeg;base64," alt="Floral Photo">

    <img class="flower-photo" src="data:image/jpeg;base64," alt="Floral Photo">

    <img class="flower-photo" src="data:image/jpeg;base64," alt="Floral Photo">

    <h2>Flower Stock</h2>

    <div class="flower-stock">

      <div class="flower-category">Roses</div>

      <div class="flower-item">

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQgGz59\_xWHHXdR70otAEumsIKTAduYSqriqRkB5C1Q&s" alt="Rose">

        <p>Red Rose</p>

      </div>

      <div class="flower-item">

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTmitzUbY4xiuXXvl8sLiCrGbOYqcehxJEuJyhPvsoqUg&s" alt="Rose">

        <p>Pink Rose</p>

      </div>

      <div class="flower-item">

        <img src="data:image/jpeg;base64," alt="Rose">

        <p>Yellow Rose</p>

      </div>

      <div class="flower-category">Lilies</div>

      <div class="flower-item">

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRxfTxh1613wCrdcy8\_s4tdmx6z37VvaK\_nnwhHb2DHkg&s" alt="Lily">

        <p>White Lily</p>

      </div>

      <div class="flower-item">

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQqvKVZIcucjKCrs3DPOkneH4HQ2g1V6vzprGLMcQZfaw&s" alt="Lily">

        <p>Pink Lily</p>

      </div>

      <div class="flower-item">

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQqvKVZIcucjKCrs3DPOkneH4HQ2g1V6vzprGLMcQZfaw&s" alt="Lily">

        <p>Orange Lily</p>

      </div>

    </div>

    <h2>Animation Example</h2>

    <div class="animation-example">

      <img src="https://i.gifer.com/origin/d4/d4899f7da1994a81d430d674c0ab0dff\_w200.webp" alt="Animated Flower">

    </div>

  </div>

</body>

</html>

**A] Write**A Java Script code to take input from the user and display that inputs in following pattern.

“*Hello ……… Welcome To World of JavaScript”.*

**Ans: - Method 1**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Welcome Message</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f0f0f0;

            text-align: center;

            margin-top: 100px;

        }

    </style>

</head>

<body>

    <h1>Enter Your Name:</h1>

    <input type="text" id="nameInput" placeholder="Your Name">

    <button onclick="displayWelcomeMessage()">Submit</button>

    <script>

        function displayWelcomeMessage() {

            const name = document.getElementById("nameInput").value;

            if (name.trim() === "") {

                document.write("Please enter a valid name.");

            } else {

                document.write(`Hello ${name}! Welcome To World of JavaScript`);

            }

        }

    </script>

</body>

</html>

**Method 2**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Welcome Message</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f0f0f0;

            text-align: center;

            margin-top: 100px;

        }

        #output {

            font-size: 24px;

            font-weight: bold;

        }

    </style>

</head>

<body>

    <h1>Enter Your Name:</h1>

    <input type="text" id="nameInput" placeholder="Your Name">

    <button onclick="displayWelcomeMessage()">Submit</button>

    <div id="output"></div>

    <script>

        function displayWelcomeMessage() {

            const name = document.getElementById("nameInput").value;

            const outputElement = document.getElementById("output");

            if (name.trim() === "") {

                outputElement.innerHTML = "Please enter a valid name.";

            } else {

                outputElement.innerHTML = `Hello ${name}! Welcome To World of JavaScript`;

            }

        }

    </script>

</body>

</html>

**B] Write** a JavaScript code to perform arithmetic operation by taking values from users (Add,Sub, Mul,Div)(1. 4 Button, 2.Dropdown)

**Ans: -**

<!DOCTYPE html>

<html>

<head>

  <title>Arithmetic Operations</title>

</head>

<body>

  <h1>Arithmetic Operations</h1>

  <input type="number" id="num1" placeholder="Enter number 1">

  <input type="number" id="num2" placeholder="Enter number 2">

  <button onclick="performOperation('+')">Add</button>

  <button onclick="performOperation('-')">Subtract</button>

  <button onclick="performOperation('\*')">Multiply</button>

  <button onclick="performOperation('/')">Divide</button>

  <select id="operation">

    <option value="+">Add</option>

    <option value="-">Subtract</option>

    <option value="\*">Multiply</option>

    <option value="/">Divide</option>

  </select>

  <button onclick="performOperationDropdown()">Calculate</button>

  <p>Result:</p>

  <textarea id="output" readonly></textarea>

  <script type="text/javascript">

    function performOperation(operator) {

  const num1 = parseFloat(document.getElementById('num1').value);

  const num2 = parseFloat(document.getElementById('num2').value);

  let result;

  switch (operator) {

    case '+':

      result = num1 + num2;

      break;

    case '-':

      result = num1 - num2;

      break;

    case '\*':

      result = num1 \* num2;

      break;

    case '/':

      if (num2 === 0) {

        result = "Error: Cannot divide by zero";

      } else {

        result = num1 / num2;

      }

      break;

    default:

      result = "Invalid operator";

  }

  document.getElementById('output').value = result;

}

function performOperationDropdown() {

  const operator = document.getElementById('operation').value;

  performOperation(operator);

}

  </script>

</body>

</html>

**A]** Create one button on every click of button different colors should be applied to background.

**Ans: -**

<html>

<head>

    <title>Assignment 4-A</title> <!-- Sets the title of the web page -->

    <script>

        var i = 0; // Initialize a variable 'i' to 0.

        function CallMe() {

            var color = [ // Create an array called 'color' containing various color names.

                'red', 'green', 'yellow', 'black', 'silver', 'gray', 'white',

                'maroon', 'purple', 'fuchsia', 'lime', 'olive', 'navy', 'blue',

                'teal', 'aqua'

            ];

            document.bgColor = color[i]; // Change the background color to the color at index 'i' in the array.

            i++; // Increment 'i' by 1.

            if (i == color.length) { // If 'i' reaches the length of the array, reset it to 0.

                i = 0;

            }

        }

    </script>

</head>

<body>

    <p>Click Button to Change Color</p> <!-- Displays a text message -->

    <input type="button" value="Change Color" onclick="CallMe()"> <!-- Creates a button that triggers the 'CallMe' function when clicked. -->

</body>

</html>

**B]** Create one button on every click of button different images should be applied.

**Ans: -**

**Method 1**

<!DOCTYPE html>

<html>

<head>

    <title>Change Images</title>

    <style>

        /\* Add some basic styling to the image container \*/

        #imageContainer {

            width: 300px;

            height: 300px;

            border: 1px solid #ccc;

            display: flex;

            justify-content: center;

            align-items: center;

        }

        /\* Style the images to fit the container \*/

        img {

            max-width: 100%;

            max-height: 100%;

        }

    </style>

</head>

<body>

    <div id="imageContainer">

        <img src="image1.jpg" alt="Image 1">

    </div>

    <br>

    <input type="button" value="Change Image" onclick="changeImage()">

    <script>

        var images = ["image1.jpg", "image2.jpg", "image3.jpg", "image4.jpg"]; // Array of image file names

        var currentIndex = 0; // Initialize the index of the current image

        function changeImage() {

            var imageContainer = document.getElementById('imageContainer');

            currentIndex = (currentIndex + 1) % images.length; // Cycle through images

            // Change the source of the image in the container

            imageContainer.innerHTML = `<img src="${images[currentIndex]}" alt="Image ${currentIndex + 1}">`;

        }

    </script>

</body>

</html>

**Method 2**

<!DOCTYPE html>

<html>

<head>

  <title>Image Changing Button</title>

  <style>

    /\* Internal CSS - Styles for the button \*/

    #imageButton {

      padding: 10px 20px;

      font-size: 16px;

      cursor: pointer;

      background-size: cover;

      background-position: center;

      background-repeat: no-repeat;

    }

  </style>

</head>

<body>

  <h4>Create one button on every click of button different images should be applied.</h4>

  <button id="imageButton" onclick="changeBackgroundImage()">Click Me!</button>

  <script>

    function changeBackgroundImage() {

      var images = [

        "image1.jpg",

        "image2.jpg",

        "image3.jpg",

        "image4.jpg",

        "image5.jpg",

      ];

      var randomIndex = Math.floor(Math.random() \* images.length);

      var randomImageUrl = images[randomIndex];

      document.body.style.backgroundImage = "url('" + randomImageUrl + "')";

    }

  </script>

</body>

</html>

**C]** Declare a Javascript String array of colors say colors = [“Red”, “Green”, “Blue”] Accept a value from the user and add it to the array if the value is not present in the array.

**Ans: -**

<!DOCTYPE html>

<html>

<head>

</head>

<body>

  Enter a color: <input type="text" id="txt1">

  <input type="button" value="click" onclick="fun1()">

  <div id="d1"> New color palette</div>

<script>

var color=['red','green','yellow'];

function fun1() {

  var txt1 = document.getElementById('txt1').value;

  if (txt1.trim() === "") {

    alert("Enter a color. Blank is not allowed.");

    return;

  }

  var newcolor = txt1.toLowerCase();

  if (color.indexOf(newcolor) === -1) {

    alert("Color is not present in the list");

    color.push(newcolor);

    alert(color);

  } else {

    alert(newcolor + " is already present in the list!!!");

  }

  document.getElementById('d1').innerHTML = color;

}

</script>

</body>

</html>

**D]** Write a JavaScript code to apply font color and background color to Heading from dropdown, if font color and background color is same no changes should be reflected.

**Ans: -**

**Method 1**

<!DOCTYPE html>

<html>

<head>

    <title>Color Changing Heading</title>

</head>

<body>

    <h1 id="heading">Color and Background Changing Heading  </h1>

    <label for="fontColor">Font Color:</label>

    <select id="fontColor">

        <option value="black">Black</option>

        <option value="red">Red</option>

        <option value="blue">Blue</option>

        <option value="green">Green</option>

        <option value="aqua">Aqua</option>

        <option value="lime">Lime</option>

        <option value="silver">Silver</option>

        <option value="white">White</option>

        <option value="maroon">Maroon</option>

    </select>

    <label for="bgColor">Background Color:</label>

    <select id="bgColor">

        <option value="black">Black</option>

        <option value="red">Red</option>

        <option value="blue">Blue</option>

        <option value="green">Green</option>

        <option value="aqua">Aqua</option>

        <option value="lime">Lime</option>

        <option value="silver">Silver</option>

        <option value="white">White</option>

        <option value="maroon">Maroon</option>

    </select>

    <script>

        var heading = document.getElementById('heading');

        var fontColorSelect = document.getElementById('fontColor');

        var bgColorSelect = document.getElementById('bgColor');

        fontColorSelect.addEventListener('change', applyColors);

        bgColorSelect.addEventListener('change', applyColors);

        function applyColors() {

            var selectedFontColor = fontColorSelect.value;

            var selectedBgColor = bgColorSelect.value;

            if (selectedFontColor == selectedBgColor)

            {

                alert("Font Color and Heading Color are Same Do you Want to Continue");

                heading.style.color = selectedFontColor;

                heading.style.backgroundColor = selectedBgColor;

            }

             if (selectedFontColor !== selectedBgColor) {

                heading.style.color = selectedFontColor;

                heading.style.backgroundColor = selectedBgColor;

            }

         }

    </script>

</body>

</html>

**Method 2**

<html>

<head>

</head>

<body>

    <h1 id="p1"> This is Heading </h1>

    <select id="s1">

        <option> TextColor </option>

        <option> red </option>

        <option> green </option>

        <option> yellow </option>

    </select>

    <select id="s2">

        <option> BackgroundColor </option>

        <option> red </option>

        <option> green </option>

        <option> yellow </option>

    </select>

    <br><br>

    <input type="button" value="Click" onclick="fun1()">

<script>

var color=['red','green','yellow'];

function fun1(){

var p1=document.getElementById('p1');

var s1=document.getElementById('s1').value;

var s2=document.getElementById('s2').value;

if(s1==s2)

{

p1.style.color="black";

p1.style.backgroundColor="white"

}

else

{

    p1.style.color=s1;

p1.style.backgroundColor=s2;

}

}

</script>

</body>

</html>

**E]** Create an array using JavaScript and display the occurences of a specific character [For example; arr = [‘a, ‘b’, ‘a’, ‘c’, ‘z’] Output should be occurrences of a is 2].

**Ans: -**

**Method 1**

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Frequency</title>

</head>

<body>

    <p>Array: ['a', 'b', 'c', 'b', 'a']</p> <!-- Display the array to the user -->

    <br>

    Enter letter <input type="text" id='txt1'> <!-- Removed the default value -->

    <br><br>

    <input type="button" value="Show Count" onclick="fun1()">

    <div id="result"></div>

    <script>

        function fun1() {

            const letters = ['a', 'b', 'c', 'b', 'a'];

            const search = document.getElementById('txt1').value; // Get the input value

            let counter = 0;

            for (let l of letters) {

                if (l === search) {

                    counter++;

                }

            }

            document.getElementById('result').textContent = `Occurrences of "${search}" is ${counter}`;

        }

    </script>

</body>

</html>

**Method 2**

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Frequency</title>

</head>

<body>

    Enter an array (comma-separated): <input type="text" id="arrayInput">

    <br><br>

    Enter letter to count: <input type="text" id="txt1">

    <br><br>

    <input type="button" value="Show Count" onclick="fun1()">

    <div id="result"></div>

    <div id="arrayDisplay"></div> <!-- Display the entered array here -->

    <script>

        function fun1() {

            const arrayInput = document.getElementById('arrayInput').value;

            const letters = arrayInput.split(',').map(item => item.trim());

            const search = document.getElementById('txt1').value;

            let counter = 0;

            for (let l of letters) {

                if (l === search) {

                    counter++;

                }

            }

            document.getElementById('result').textContent = `Occurrences of "${search}" is ${counter}`;

            document.getElementById('arrayDisplay').textContent = `Entered array: [${letters.join(', ')}]`;

        }

    </script>

</body>

</html>

**A]** Write a Javascript code to append static row to the table on click of button.

**Ans: -**

**Add row**

<html>

<head>

    <title>Append Row to Table</title>

    <style>

        table {

            border-collapse: collapse;

        }

        th, td {

            border: 1px solid black;

            padding: 8px;

        }

    </style>

</head>

<body>

    <table id="myTable">

        <thead>

            <tr>

                <th>Name</th>

                <th>Email</th>

            </tr>

        </thead>

        <tbody>

            <tr>

                <td>abc</td>

                <td>abc@gmail.com</td>

            </tr>

            <tr>

                <td>def</td>

                <td>def@gmail.com</td>

            </tr>

        </tbody>

    </table>

    <button id="addRowBtn">Add Row</button>

    <script>

        // Function to handle button click event

        function addRow() {

            var table = document.getElementById("myTable");

            var row = table.insertRow(table.rows.length); // Insert new row at the end of the table

            var cell1 = row.insertCell(0); // Insert new cells

            var cell2 = row.insertCell(1);

            var name= prompt("Enter Full Name");

            var email=prompt("Enter Email ID");

            cell1.innerHTML = name; // Add content to the cells

            cell2.innerHTML = email;

        }

        // Attach event listener to the button

        var addRowBtn = document.getElementById("addRowBtn");

        addRowBtn.addEventListener("click", addRow);

    </script>

</body>

</html>

Delete row

<!DOCTYPE html>

<html>

<head>

    <title>Append/Delete Row to/from Table</title>

    <style>

        table {

            border-collapse: collapse;

        }

        th, td {

            border: 1px solid black;

            padding: 8px;

        }

    </style>

</head>

<body>

    <table id="myTable">

        <thead>

            <tr>

                <th>Name</th>

                <th>Email</th>

                <th>Action</th>

            </tr>

        </thead>

        <tbody>

            <tr>

                <td>abc</td>

                <td>abc@gmail.com</td>

                <td><button onclick="deleteRow(this)">Delete</button></td>

            </tr>

            <tr>

                <td>def</td>

                <td>def@gmail.com</td>

                <td><button onclick="deleteRow(this)">Delete</button></td>

            </tr>

        </tbody>

    </table>

    <button id="addRowBtn">Add Row</button>

    <script>

        // Function to handle button click event to add a new row

        function addRow() {

            var table = document.getElementById("myTable");

            var row = table.insertRow(table.rows.length); // Insert new row at the end of the table

            var cell1 = row.insertCell(0); // Insert new cells

            var cell2 = row.insertCell(1);

            var cell3 = row.insertCell(2);

            var name = prompt("Enter Full Name");

            var email = prompt("Enter Email ID");

            cell1.innerHTML = name; // Add content to the cells

            cell2.innerHTML = email;

            cell3.innerHTML = '<button onclick="deleteRow(this)">Delete</button>';

        }

        // Function to handle button click event to delete a row

        function deleteRow(button) {

            var row = button.parentNode.parentNode; // Get the row to be deleted

            var table = row.parentNode; // Get the table element

            table.deleteRow(row.rowIndex); // Delete the row

        }

        // Attach event listener to the "Add Row" button

        var addRowBtn = document.getElementById("addRowBtn");

        addRowBtn.addEventListener("click", addRow);

    </script>

</body>

</html>

Modify row<!DOCTYPE html>

<html>

<head>

    <title>Append/Modify/Delete Row to/from Table</title>

    <style>

        table {

            border-collapse: collapse;

        }

        th, td {

            border: 1px solid black;

            padding: 8px;

        }

    </style>

</head>

<body>

    <table id="myTable">

        <thead>

            <tr>

                <th>Name</th>

                <th>Email</th>

                <th>Action</th>

            </tr>

        </thead>

        <tbody>

            <tr>

                <td>abc</td>

                <td>abc@gmail.com</td>

                <td>

                    <button onclick="modifyRow(this)">Modify</button>

                    <button onclick="deleteRow(this)">Delete</button>

                </td>

            </tr>

            <tr>

                <td>def</td>

                <td>def@gmail.com</td>

                <td>

                    <button onclick="modifyRow(this)">Modify</button>

                    <button onclick="deleteRow(this)">Delete</button>

                </td>

            </tr>

        </tbody>

    </table>

    <button id="addRowBtn">Add Row</button>

    <script>

        // Function to handle button click event to add a new row

        function addRow() {

            var table = document.getElementById("myTable");

            var row = table.insertRow(table.rows.length); // Insert new row at the end of the table

            var cell1 = row.insertCell(0); // Insert new cells

            var cell2 = row.insertCell(1);

            var cell3 = row.insertCell(2);

            var name = prompt("Enter Full Name");

            var email = prompt("Enter Email ID");

            cell1.innerHTML = name; // Add content to the cells

            cell2.innerHTML = email;

            cell3.innerHTML = '<button onclick="modifyRow(this)">Modify</button>' +

                              '<button onclick="deleteRow(this)">Delete</button>';

        }

        // Function to handle button click event to modify a row

        function modifyRow(button) {

            var row = button.parentNode.parentNode; // Get the row to be modified

            var name = prompt("Modify Full Name", row.cells[0].innerHTML);

            var email = prompt("Modify Email ID", row.cells[1].innerHTML);

            if (name !== null && email !== null) {

                row.cells[0].innerHTML = name;

                row.cells[1].innerHTML = email;

            }

        }

        // Function to handle button click event to delete a row

        function deleteRow(button) {

            var row = button.parentNode.parentNode; // Get the row to be deleted

            var table = row.parentNode; // Get the table element

            table.deleteRow(row.rowIndex); // Delete the row

        }

        // Attach event listener to the "Add Row" button

        var addRowBtn = document.getElementById("addRowBtn");

        addRowBtn.addEventListener("click", addRow);

    </script>

</body>

</html>

**B]** Write a Javascript code to append anchor tag that redirects to the new page.

**Ans: -**

**1**

<!DOCTYPE html>

<html>

<head>

    <title>Append Anchor Tag</title>

</head>

<body>

    <button id="appendLinkBtn">Append Link</button>

    <script>

        // Function to handle button click event to append the anchor tag

        function appendLink() {

            var linkUrl = prompt("Enter the full URL for the link (e.g., https://www.google.com):");

            if (linkUrl) {

                var link = document.createElement("a"); // Create an anchor element

                link.href = linkUrl; // Set the URL to the new page

                link.textContent = "Click here"; // Set the link text

                link.target = "\_blank"; // Open the link in a new tab

                // Append the anchor element to the body or any other element

                document.body.appendChild(link);

            }

        }

        // Attach event listener to the "Append Link" button

        var appendLinkBtn = document.getElementById("appendLinkBtn");

        appendLinkBtn.addEventListener("click", appendLink);

    </script>

</body>

</html>

**2**

<!DOCTYPE html>

<html>

<head>

    <title>Append Anchor Tag- Demonstration</title>

</head>

<body>

    <div id="container">

        <h1>This Assignment Shows How Anchor Tag Works</h1>

        <br>

        <h2>CLick on Following Button</h2>

        <button id="addAnchorBtn"> Click Me </button>

    </div>

    <script>

        // Function to handle button click event

        function addAnchorTag() {

            var container = document.getElementById("container");

            var anchor = document.createElement("a"); // Create the anchor element

            anchor.href = "https://www.axisbank.com"; // Set the URL to redirect to

            anchor.textContent = "Click me!"; // Set the text content of the anchor

            container.appendChild(anchor); // Append the anchor to the container

        }

        // Attach event listener to the button

        var addAnchorBtn = document.getElementById("addAnchorBtn");

        addAnchorBtn.addEventListener("click", addAnchorTag);

    </script>

</body>

</html>

**C]** Write a Javascript code to change the color of button with following events

1.Onmouseover

2.Onmouseout

3.Onclick

**Ans: -**

<!DOCTYPE html>

<html>

<head>

<style>

  #myButton {

    background-color: blue;

    color: white;

    padding: 10px 20px;

    border: none;

    cursor: pointer;

  }

</style>

</head>

<body>

<button id="myButton" onmouseover="changeColor('red')" onmouseout="changeColor('blue')" onclick="changeColor('green')">Click me</button>

<script>

function changeColor(newColor) {

  var button = document.getElementById('myButton');

  button.style.backgroundColor = newColor;

}

</script>

</body>

</html>

**2**

<!DOCTYPE html>

<html>

<head>

    <title>Change Button Color</title>

    <style>

        #myButton {

            background-color: #3498db;

            color: white;

            padding: 10px 20px;

            border: none;

            cursor: pointer;

        }

    </style>

</head>

<body>

    <button id="myButton">Click Me</button>

    <script>

        var button = document.getElementById("myButton");

        // Onmouseover event

        button.addEventListener("mouseover", function() {

            button.style.backgroundColor = "#e67e22";

        });

        // Onmouseout event

        button.addEventListener("mouseout", function() {

            button.style.backgroundColor = "#3498db";

        });

        // Onclick event

        button.addEventListener("click", function() {

            button.style.backgroundColor = "#2ecc71";

        });

    </script>

</body>

</html>

**D]** Write a Javascript code to change the background color of page onclick of array elements displayed as a list.

**Ans: -**

**1**

<!DOCTYPE html>

<html>

<head>

  <title>Change Background Color</title>

</head>

<body>

<ul id="colorList">

  <li onclick="changeBackgroundColor('red')">Red</li>

  <li onclick="changeBackgroundColor('green')">Green</li>

  <li onclick="changeBackgroundColor('blue')">Blue</li>

  <li onclick="changeBackgroundColor('white')">White</li>

  <li onclick="changeBackgroundColor('Purple')">Purple</li>

</ul>

<script>

function changeBackgroundColor(color) {

  document.body.style.backgroundColor = color;

}

</script>

</body>

</html>

**2**

<!DOCTYPE html>

<html>

<head>

    <title>Change Background Color</title>

    <style>

        li {

            cursor: pointer;

        }

    </style>

</head>

<body>

    <ul id="myList">

        <li>Red</li>

        <li>Green</li>

        <li>Blue</li>

    </ul>

    <script>

        var list = document.getElementById("myList");

        var colors = ["red", "green", "blue"];

        for (var i = 0; i < list.children.length; i++) {

            list.children[i].addEventListener("click", function() {

                var colorIndex = Array.prototype.indexOf.call(list.children, this);

                var color = colors[colorIndex % colors.length];

                document.body.style.backgroundColor = color;

            });

        }

    </script>

</body>

</html>

1. Write a Javascript to create shopping applications which adds the books in cart, updates the existing books, delete the book and display the same. Create proper UI for the same.

**Ans: -**

**1**

<!DOCTYPE html>

<html>

<head>

  <style>

    body {

      background-color: #add8e6;

      margin: 0;

      padding: 0;

    }

    h1 {

      font-size: 36px;

      color: #1e90ff;

      text-align: center;

      margin-top: 50px;

    }

    table {

      width: 100%;

      border-collapse: collapse;

      margin-top: 20px;

    }

    th,

    td {

      border: 1px solid #dddddd;

      padding: 8px;

      text-align: left;

    }

    th {

      background-color: #1e90ff;

      color: white;

    }

    input[type="text"],

    input[type="number"] {

      width: 100%;

      padding: 12px 20px;

      margin: 8px 0;

      box-sizing: border-box;

      border: 2px solid #ccc;

      border-radius: 4px;

    }

    input {

      padding: 10px;

      font-size: 18px;

      border-radius: 5px;

      border: 1px solid #ccc;

      margin-top: 10px;

      width: 200px;

    }

    input[type="text"]:focus,

    input[type="number"]:focus {

      border: 2px solid #555;

    }

    .form-container {

      width: 50%;

      margin: 0 auto;

      text-align: center;

    }

    .form-container h3 {

      margin-top: 0;

      font-size: 36px;

    }

    .form-container label {

      display: block;

      margin-bottom: 8px;

      font-size: 18px;

    }

    .form-container input[type="submit"] {

      width: 50%;

      padding: 14px 20px;

      margin: 20px 0;

      border-radius: 4px;

      background-color: #228b22;

      color: white;

      cursor: pointer;

      font-size: 18px;

    }

    .delete-button {

      background-color: #ff0000;

      color: white;

      padding: 5px 10px;

      border-radius: 4px;

      cursor: pointer;

      font-size: 18px;

    }

    .update-button {

      background-color: #ff8c00;

      color: white;

      padding: 5px 10px;

      border-radius: 4px;

      cursor: pointer;

      font-size: 18px;

    }

    .header {

      background-color: #00bfff;

      color: white;

      padding: 15px;

      text-align: center;

      font-size: 36px;

    }

    .footer {

      background-color: #228b22;

      color: white;

      padding: 15px;

      text-align: center;

      font-size: 18px;

    }

  </style>

</head>

<body>

  <div class="container">

    <h1>Shopping Cart</h1>

    <table id="cart">

      <tr>

        <th>Title</th>

        <th>Author</th>

        <th>Price</th>

        <th>Action</th>

      </tr>

    </table>

    <input class="input-field" id="title" type="text" placeholder="Title" />

    <input class="input-field" id="author" type="text" placeholder="Author" />

    <input class="input-field" id="price" type="text" placeholder="Price" />

    <button class="btn" id="addBtn">Add to Cart</button>

  </div>

  <script>

    const addButton = document.getElementById("addBtn");

    const cartTable = document.getElementById("cart");

    let cartItems = [];

    addButton.addEventListener("click", function () {

      const title = document.getElementById("title").value;

      const author = document.getElementById("author").value;

      const price = document.getElementById("price").value;

      if (title && author && price) {

        const book = { title, author, price };

        const existingBook = cartItems.find((b) => b.title === title);

        if (existingBook) {

          existingBook.author = author;

          existingBook.price = price;

        } else {

          cartItems.push(book);

        }

        renderCart();

      }

    });

    function renderCart() {

      cartTable.innerHTML = `

        <tr>

          <th>Title</th>

          <th>Author</th>

          <th>Price</th>

          <th>Action</th>

        </tr>

      `;

      for (let i = 0; i < cartItems.length; i++) {

        const book = cartItems[i];

        const tr = document.createElement("tr");

        tr.innerHTML = `

          <td>${book.title}</td>

          <td>${book.author}</td>

          <td>${book.price}</td>

          <td>

            <button class="delete-button" data-index="${i}">Delete</button>

          </td>

        `;

        cartTable.appendChild(tr);

      }

      const deleteButtons = document.querySelectorAll(".delete-button");

      for (const deleteButton of deleteButtons) {

        deleteButton.addEventListener("click", function () {

          const index = this.getAttribute("data-index");

          cartItems.splice(index, 1);

          renderCart();

        });

      }

    }

    renderCart();

  </script>

</body>

</html>

**2**

<!DOCTYPE html>

<html>

<head>

    <title>Book Store</title>

    <style>

        /\* Add your CSS styles here for the UI \*/

        body {

            font-family: Arial, sans-serif;

        }

        .container {

            width: 80%;

            margin: 0 auto;

        }

        .book {

            border: 1px solid #ccc;

            padding: 10px;

            margin: 10px;

            display: inline-block;

        }

        .cart {

            border: 1px solid #333;

            padding: 10px;

            margin: 10px;

        }

        .cart-item {

            display: flex;

            justify-content: space-between;

            margin-bottom: 10px;

        }

    </style>

</head>

<body>

    <div class="container">

        <h1>Book Store</h1>

        <!-- Add Book Form -->

        <h2>Add a Custom Book</h2>

        <form id="addCustomBookForm">

            <label for="customBookName">Book Name:</label>

            <input type="text" id="customBookName" required>

            <br>

            <label for="customBookPrice">Price:</label>

            <input type="number" id="customBookPrice" required>

            <br>

            <button type="submit">Add Custom Book</button>

        </form>

        <!-- Book List -->

        <div id="bookList">

            <!-- Books will be displayed here -->

        </div>

        <!-- Shopping Cart -->

        <div class="cart">

            <h2>Shopping Cart</h2>

            <ul id="cartItems">

                <!-- Cart items will be displayed here -->

            </ul>

            <p>Total: $<span id="cartTotal">0</span></p>

        </div>

    </div>

    <script>

        // Shopping cart data

        let cart = [];

        // Available books data (34 pre-defined books)

        let availableBooks = [

            { name: "Book 1", price: 10 },

            { name: "Book 2", price: 15 },

            // Add more books here...

            { name: "Book 34", price: 25 }

        ];

        // Initialize the custom book inputs with the last used values (if available)

        const lastCustomName = localStorage.getItem("lastCustomName");

        const lastCustomPrice = localStorage.getItem("lastCustomPrice");

        if (lastCustomName) {

            document.getElementById("customBookName").value = lastCustomName;

        }

        if (lastCustomPrice) {

            document.getElementById("customBookPrice").value = lastCustomPrice;

        }

        // Function to add a custom book to the available books list

        document.getElementById("addCustomBookForm").addEventListener("submit", function (event) {

            event.preventDefault();

            const bookName = document.getElementById("customBookName").value;

            const bookPrice = parseFloat(document.getElementById("customBookPrice").value);

            if (bookName && bookPrice) {

                availableBooks.push({ name: bookName, price: bookPrice });

                updateBookList();

                document.getElementById("customBookName").value = "";

                document.getElementById("customBookPrice").value = "";

                // Store the last custom book requirement in localStorage

                localStorage.setItem("lastCustomName", bookName);

                localStorage.setItem("lastCustomPrice", bookPrice);

            }

        });

        // Function to update the book list display

        function updateBookList() {

            const bookList = document.getElementById("bookList");

            bookList.innerHTML = "";

            availableBooks.forEach((book, index) => {

                const div = document.createElement("div");

                div.className = "book";

                div.innerHTML = `

                    <h2>${book.name}</h2>

                    <p>Price: $${book.price}</p>

                    <button onclick="addToCart(${index})">Add to Cart</button>

                `;

                bookList.appendChild(div);

            });

        }

        // Function to add a book to the cart

        function addToCart(bookIndex) {

            const book = availableBooks[bookIndex];

            const existingBook = cart.find(item => item.name === book.name);

            if (existingBook) {

                existingBook.quantity++;

            } else {

                cart.push({ name: book.name, price: book.price, quantity: 1 });

            }

            displayCart();

        }

        // Function to remove a book from the cart

        function removeFromCart(bookName) {

            const index = cart.findIndex(item => item.name === bookName);

            if (index !== -1) {

                cart.splice(index, 1);

            }

            displayCart();

        }

        // Function to modify the quantity of a book in the cart

        function modifyQuantity(bookName, newQuantity) {

            const book = cart.find(item => item.name === bookName);

            if (book) {

                book.quantity = newQuantity;

            }

            displayCart();

        }

        // Function to display the cart

        function displayCart() {

            const cartItems = document.getElementById("cartItems");

            const cartTotal = document.getElementById("cartTotal");

            let total = 0;

            cartItems.innerHTML = "";

            cart.forEach(item => {

                const li = document.createElement("li");

                li.className = "cart-item";

                li.innerHTML = `

                    <span>${item.name} - $${item.price} x ${item.quantity}</span>

                    <button onclick="modifyQuantity('${item.name}', prompt('Enter new quantity:', ${item.quantity}))">Modify</button>

                    <button onclick="removeFromCart('${item.name}')">Delete</button>

                `;

                cartItems.appendChild(li);

                total += item.price \* item.quantity;

            });

            cartTotal.textContent = total;

        }

        // Initialize the book list

        updateBookList();

    </script>

</body>

</html>

**OR**

<!DOCTYPE html>

<html>

<head>

    <title>Book Store</title>

    <style>

        /\* Add your CSS styles here for the UI \*/

        body {

            font-family: Arial, sans-serif;

        }

        .container {

            width: 80%;

            margin: 0 auto;

        }

        .book {

            border: 1px solid #ccc;

            padding: 10px;

            margin: 10px;

            display: inline-block;

        }

        .cart {

            border: 1px solid #333;

            padding: 10px;

            margin: 10px;

        }

        .cart-item {

            display: flex;

            justify-content: space-between;

            margin-bottom: 10px;

        }

    </style>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/xlsx/0.17.4/xlsx.full.min.js"></script>

</head>

<body>

    <div class="container">

        <h1>Book Store</h1>

        <!-- Add Book Form -->

        <h2>Add a Custom Book</h2>

        <form id="addCustomBookForm">

            <label for="customBookName">Book Name:</label>

            <input type="text" id="customBookName" required>

            <br>

            <label for="customBookPrice">Price:</label>

            <input type="number" id="customBookPrice" required>

            <br>

            <button type="submit">Add Custom Book</button>

        </form>

        <!-- Excel File Upload -->

        <h2>Import Books from Excel</h2>

        <input type="file" id="excelFileInput" accept=".xlsx, .xls">

        <button onclick="importBooksFromExcel()">Import</button>

        <!-- Book List -->

        <div id="bookList">

            <!-- Books will be displayed here -->

        </div>

        <!-- Shopping Cart -->

        <div class="cart">

            <h2>Shopping Cart</h2>

            <ul id="cartItems">

                <!-- Cart items will be displayed here -->

            </ul>

            <p>Total: $<span id="cartTotal">0</span></p>

        </div>

    </div>

    <script>

        // Shopping cart data

        let cart = [];

        // Available books data (34 pre-defined books)

        let availableBooks = [

            { name: "Book 1", price: 10 },

            { name: "Book 2", price: 15 },

            // Add more books here...

            { name: "Book 34", price: 25 }

        ];

        // Initialize the custom book inputs with the last used values (if available)

        const lastCustomName = localStorage.getItem("lastCustomName");

        const lastCustomPrice = localStorage.getItem("lastCustomPrice");

        if (lastCustomName) {

            document.getElementById("customBookName").value = lastCustomName;

        }

        if (lastCustomPrice) {

            document.getElementById("customBookPrice").value = lastCustomPrice;

        }

        // Function to add a custom book to the available books list

        document.getElementById("addCustomBookForm").addEventListener("submit", function (event) {

            event.preventDefault();

            const bookName = document.getElementById("customBookName").value;

            const bookPrice = parseFloat(document.getElementById("customBookPrice").value);

            if (bookName && bookPrice) {

                availableBooks.push({ name: bookName, price: bookPrice });

                updateBookList();

                document.getElementById("customBookName").value = "";

                document.getElementById("customBookPrice").value = "";

                // Store the last custom book requirement in localStorage

                localStorage.setItem("lastCustomName", bookName);

                localStorage.setItem("lastCustomPrice", bookPrice);

            }

        });

        // Function to update the book list display

        function updateBookList() {

            const bookList = document.getElementById("bookList");

            bookList.innerHTML = "";

            availableBooks.forEach((book, index) => {

                const div = document.createElement("div");

                div.className = "book";

                div.innerHTML = `

                    <h2>${book.name}</h2>

                    <p>Price: $${book.price}</p>

                    <button onclick="addToCart(${index})">Add to Cart</button>

                `;

                bookList.appendChild(div);

            });

        }

        // Function to add a book to the cart

        function addToCart(bookIndex) {

            const book = availableBooks[bookIndex];

            const existingBook = cart.find(item => item.name === book.name);

            if (existingBook) {

                existingBook.quantity++;

            } else {

                cart.push({ name: book.name, price: book.price, quantity: 1 });

            }

            displayCart();

        }

        // Function to remove a book from the cart

        function removeFromCart(bookName) {

            const index = cart.findIndex(item => item.name === bookName);

            if (index !== -1) {

                cart.splice(index, 1);

            }

            displayCart();

        }

        // Function to modify the quantity of a book in the cart

        function modifyQuantity(bookName, newQuantity) {

            const book = cart.find(item => item.name === bookName);

            if (book) {

                book.quantity = newQuantity;

            }

            displayCart();

        }

        // Function to display the cart

        function displayCart() {

            const cartItems = document.getElementById("cartItems");

            const cartTotal = document.getElementById("cartTotal");

            let total = 0;

            cartItems.innerHTML = "";

            cart.forEach(item => {

                const li = document.createElement("li");

                li.className = "cart-item";

                li.innerHTML = `

                    <span>${item.name} - $${item.price} x ${item.quantity}</span>

                    <button onclick="modifyQuantity('${item.name}', prompt('Enter new quantity:', ${item.quantity}))">Modify</button>

                    <button onclick="removeFromCart('${item.name}')">Delete</button>

                `;

                cartItems.appendChild(li);

                total += item.price \* item.quantity;

            });

            cartTotal.textContent = total;

        }

        // Function to handle the import of books from an Excel file

        function importBooksFromExcel() {

            const excelFileInput = document.getElementById("excelFileInput");

            const file = excelFileInput.files[0];

            if (file) {

                const reader = new FileReader();

                reader.onload = function (e) {

                    const data = new Uint8Array(e.target.result);

                    const workbook = XLSX.read(data, { type: 'array' });

                    const sheet = workbook.Sheets[workbook.SheetNames[0]];

                    const jsonData = XLSX.utils.sheet\_to\_json(sheet);

                    // Add imported books to the availableBooks array

                    jsonData.forEach(book => {

                        const name = book['Book Name'];

                        const price = parseFloat(book['Price']);

                        if (name && !isNaN(price)) {

                            availableBooks.push({ name, price });

                        }

                    });

                    updateBookList();

                };

                reader.readAsArrayBuffer(file);

            }

        }

        // Initialize the book list

        updateBookList();

    </script>

</body>

</html>