

Program No.- 1

Design the static web pages required for an online book store website.

Code :

Main Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Main Page</title>
</head>
<frameset rows="20%,10%,70%" border="0">
  <frameset cols="20%,80%" border="0">
    <frame src="logo.html">
    <frame src="websitename.html">
  </frameset>
  <frameset cols="20%,20%,20%,20%,20%" border="0">
    <frame src="home.html">
    <frame src="login.html">
    <frame src="registration.html">
    <frame src="catalogue.html">
    <frame src="cart.html">
  </frameset>
  <frameset cols="20%,80%" border="0">
    <frame src="departments.html">
    <frame src="description.html" name="main">
  </frameset>
</frameset>
</html>
```

Logo Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Logo Page</title>
</head>
<body bgcolor="yellow">
  <center></center>
</body>
</html>
```

Website name Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Website Name</title>
</head>
<body bgcolor="pink">
  <center><h1><i><u>E-Book Wallah</u></i></h1></center>
</body>
</html>
```

Home Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Home Page</title>
</head>
<body bgcolor="orange">
  <center>
    <a href="description.html" target="main"><h1>Home</h1></a>
  </center>
</body>
</html>
```

Login Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Login Page</title>
</head>
<body bgcolor="orange">
  <center>
    <h1>Login</h1>
  </center>
</body>
</html>
```

Registration Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Registration Page</title>
</head>
<body bgcolor="orange">
  <center><h1>Registration</h1></center>
</body>
</html>
```

Catalogue Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Catalogue Page</title>
</head>
<body bgcolor="orange">
  <center><h1>Catalogue</h1></center>
</body>
</html>
```

Cart Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Cart Page</title>
</head>
<body bgcolor="orange">
```

```

        <center><h1>Cart</h1></center>
    </body>
</html>

```

Departments Page :

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Departments Page</title>
</head>
<body bgcolor="skyblue">
    <center>
        <h2>Departments</h2>
        <h3>CSE</h3><br>
        <h3>ECE</h3><br>
        <h3>EEE</h3><br>
        <h3>Civil</h3><br>
    </center>
</body>
</html>

```

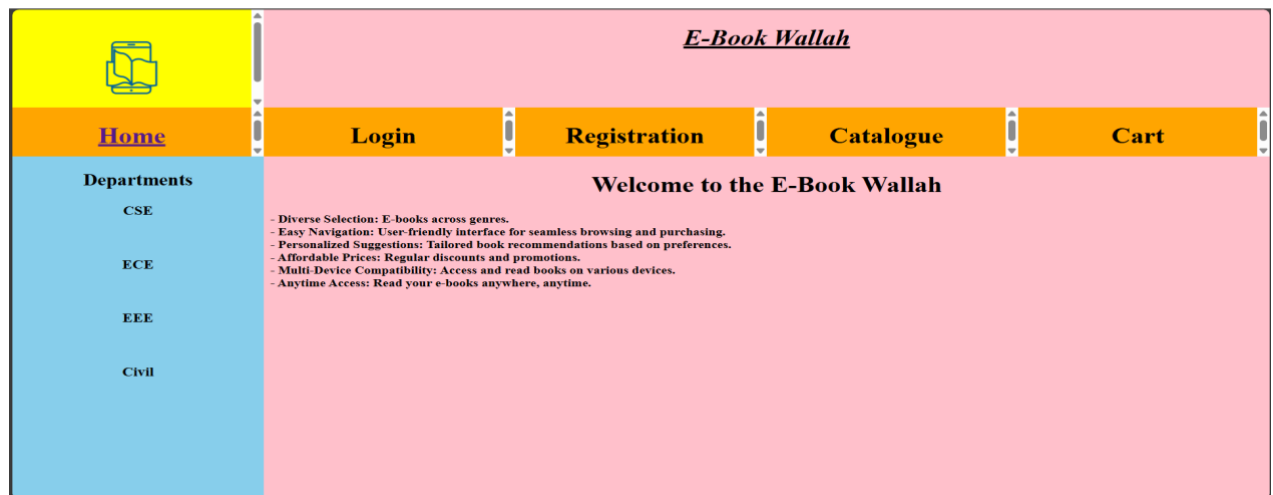
Description Page :

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Description Page</title>
</head>
<body bgcolor="pink">
    <center><h1>Welcome to the E-Book Wallah</h1></center>
    <p><h4>- Diverse Selection: E-books across genres.<br>
        - Easy Navigation: User-friendly interface for seamless browsing and purchasing.<br>
        - Personalized Suggestions: Tailored book recommendations based on preferences.<br>
        - Affordable Prices: Regular discounts and promotions.<br>
        - Multi-Device Compatibility: Access and read books on various devices.<br>
        - Anytime Access: Read your e-books anywhere, anytime.</h4></p>
</body>
</html>

```

Output :



Program No.- 2

Design the login page required for an E-commerce website.

Code :

Sign-in Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Sign In Page</title>
</head>
<body bgcolor="pink">
  <center>
    <h1>Sign In</h1>
    <form action="home.html" method="post">
      <label for="email">Email:</label><br>
      <input type="email" id="email" name="email" required><br><br>

      <label for="password">Password:</label><br>
      <input type="password" id="password" name="password" required><br><br>

      <input type="submit" value="Sign In">
    </form>
    <p>Don't have an account? <a href="registration.html">Register here</a></p>
  </center>
</body>
</html>
```

Login Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Login Page</title>
</head>
<body bgcolor="orange">
  <center>
    <h1><a href="signin.html" target="main">Login</a></h1>
  </center>
</body>
</html>
```

Output :

	<u><i>E-Book Wallah</i></u>			
<u>Home</u>	<u>Login</u>	Registration	Catalogue	Cart
Departments CSE ECE EEE Civil	<div>Sign In</div> <div>Email: <input type="text"/></div> <div>Password: <input type="password"/></div> <div><input type="button" value="Sign In"/></div> <div>Don't have an account? Register here</div>			

Program No.- 3

Design the catalogue page required for an online book store website.

Code :

CSE Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>CSE Department Books</title>
</head>
<body bgcolor="pink">
  <center>
    <h1>Computer Science Engineering Books</h1>

    <!-- Book 1 -->
    <h2>1. Introduction to Algorithms</h2>
    
    <p><strong>Author:</strong> Thomas H. Cormen</p>
    <p><strong>Publication:</strong> MIT Press</p>
    <p><strong>Price:</strong> ₹4,500</p>
    <p><strong>No. of Pages:</strong> 1,310</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 2 -->
    <h2>2. Clean Code</h2>
    
    <p><strong>Author:</strong> Robert C. Martin</p>
    <p><strong>Publication:</strong> Prentice Hall</p>
    <p><strong>Price:</strong> ₹3,200</p>
    <p><strong>No. of Pages:</strong> 464</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 3 -->
    <h2>3. Design Patterns: Elements of Reusable Object-Oriented Software</h2>
    
    <p><strong>Author:</strong> Erich Gamma, Richard Helm, Ralph Johnson, John
Vlissides</p>
    <p><strong>Publication:</strong> Addison-Wesley</p>
    <p><strong>Price:</strong> ₹3,800</p>
    <p><strong>No. of Pages:</strong> 395</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 4 -->
    <h2>4. The Pragmatic Programmer</h2>
```

```


<p><strong>Author:</strong> Andrew Hunt, David Thomas</p>
<p><strong>Publication:</strong> Addison-Wesley</p>
<p><strong>Price:</strong> ₹3,500</p>
<p><strong>No. of Pages:</strong> 352</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 5 -->
<h2>5. Artificial Intelligence: A Modern Approach</h2>

<p><strong>Author:</strong> Stuart Russell, Peter Norvig</p>
<p><strong>Publication:</strong> Pearson</p>
<p><strong>Price:</strong> ₹5,000</p>
<p><strong>No. of Pages:</strong> 1,150</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<p><a href="index.html">Back to Main Page</a></p>
</center>
</body>
</html>

```

ECE Page :

```

<!DOCTYPE html>
<html lang="en">
<head>
<title>ECE Department Books</title>
</head>
<body bgcolor="pink">
<center>
<h1>Electronics & Communication Engineering Books</h1>

<!-- Book 1 -->
<h2>1. Digital Logic and Computer Design</h2>

<p><strong>Author:</strong> M. Morris Mano</p>
<p><strong>Publication:</strong> Pearson</p>
<p><strong>Price:</strong> ₹2,800</p>
<p><strong>No. of Pages:</strong> 752</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 2 -->
<h2>2. Communication Systems</h2>

<p><strong>Author:</strong> Simon Haykin</p>
<p><strong>Publication:</strong> Wiley</p>
<p><strong>Price:</strong> ₹3,500</p>
<p><strong>No. of Pages:</strong> 912</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

```

```

<!-- Book 3 -->
<h2>3. Microelectronic Circuits</h2>

<p><strong>Author:</strong> Adel S. Sedra, Kenneth C. Smith</p>
<p><strong>Publication:</strong> Oxford University Press</p>
<p><strong>Price:</strong> ₹4,200</p>
<p><strong>No. of Pages:</strong> 1488</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 4 -->
<h2>4. Antennas and Wave Propagation</h2>

<p><strong>Author:</strong> John D. Kraus</p>
<p><strong>Publication:</strong> McGraw-Hill</p>
<p><strong>Price:</strong> ₹3,000</p>
<p><strong>No. of Pages:</strong> 560</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 5 -->
<h2>5. Signals and Systems</h2>

<p><strong>Author:</strong> Alan V. Oppenheim, Alan S. Willsky</p>
<p><strong>Publication:</strong> Pearson</p>
<p><strong>Price:</strong> ₹3,900</p>
<p><strong>No. of Pages:</strong> 960</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<p><a href="index.html">Back to Main Page</a></p>
</center>
</body>
</html>

```

EEE Page :

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>EEE Department Books</title>
</head>
<body bgcolor="pink">
  <center>
    <h1>Electrical & Electronics Engineering Books</h1>

    <!-- Book 1 -->
    <h2>1. Electric Circuits</h2>
    
    <p><strong>Author:</strong> James W. Nilsson, Susan Riedel</p>
    <p><strong>Publication:</strong> Pearson</p>
    <p><strong>Price:</strong> ₹3,800</p>

```


<p>No. of Pages: 752</p>
 <button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 2 -->
 <h2>2. Power System Analysis</h2>

 <p>Author: John J. Grainger, William D. Stevenson</p>
 <p>Publication: McGraw-Hill</p>
 <p>Price: ₹4,200</p>
 <p>No. of Pages: 704</p>
 <button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 3 -->
 <h2>3. Control Systems Engineering</h2>

 <p>Author: Norman S. Nise</p>
 <p>Publication: Wiley</p>
 <p>Price: ₹3,600</p>
 <p>No. of Pages: 816</p>
 <button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 4 -->
 <h2>4. Electrical Machines</h2>

 <p>Author: P. S. Bimbhra</p>
 <p>Publication: Khanna Publishers</p>
 <p>Price: ₹2,500</p>
 <p>No. of Pages: 400</p>
 <button onclick="alert('Book added to cart!')">Add to Cart</button>

<!-- Book 5 -->
 <h2>5. Digital Signal Processing</h2>

 <p>Author: Alan V. Oppenheim, Ronald W. Schafer</p>
 <p>Publication: Pearson</p>
 <p>Price: ₹4,800</p>
 <p>No. of Pages: 960</p>
 <button onclick="alert('Book added to cart!')">Add to Cart</button>

<p>Back to Main Page</p>
 </center>
 </body>
 </html>

Civil Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Civil Engineering Books</title>
</head>
<body bgcolor="pink">
  <center>
    <h1>Civil Engineering Books</h1>

    <!-- Book 1 -->
    <h2>1. Principles of Geotechnical Engineering</h2>
    
    <p><strong>Author:</strong> Braja M. Das</p>
    <p><strong>Publication:</strong> Cengage Learning</p>
    <p><strong>Price:</strong> ₹3,000</p>
    <p><strong>No. of Pages:</strong> 624</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 2 -->
    <h2>2. Structural Analysis</h2>
    
    <p><strong>Author:</strong> Russell C. Hibbeler</p>
    <p><strong>Publication:</strong> Pearson</p>
    <p><strong>Price:</strong> ₹4,000</p>
    <p><strong>No. of Pages:</strong> 928</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 3 -->
    <h2>3. Surveying</h2>
    
    <p><strong>Author:</strong> James M. Anderson, Edward M. Mikhail</p>
    <p><strong>Publication:</strong> McGraw-Hill</p>
    <p><strong>Price:</strong> ₹3,200</p>
    <p><strong>No. of Pages:</strong> 704</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>

    <!-- Book 4 -->
    <h2>4. Concrete Technology</h2>
    
    <p><strong>Author:</strong> M. S. Shetty</p>
    <p><strong>Publication:</strong> S. Chand Publishing</p>
    <p><strong>Price:</strong> ₹2,800</p>
    <p><strong>No. of Pages:</strong> 552</p>
    <button onclick="alert('Book added to cart!')">Add to Cart</button>
```

```

<!-- Book 5 -->
<h2>5. Highway Engineering</h2>

<p><strong>Author:</strong> S. K. Khanna, C. E. G. Justo</p>
<p><strong>Publication:</strong> Nem Chand & Bros</p>
<p><strong>Price:</strong> ₹3,500</p>
<p><strong>No. of Pages:</strong> 840</p>
<button onclick="alert('Book added to cart!')">Add to Cart</button>

<p><a href="index.html">Back to Main Page</a></p>
</center>
</body>
</html>

```

Departments page:

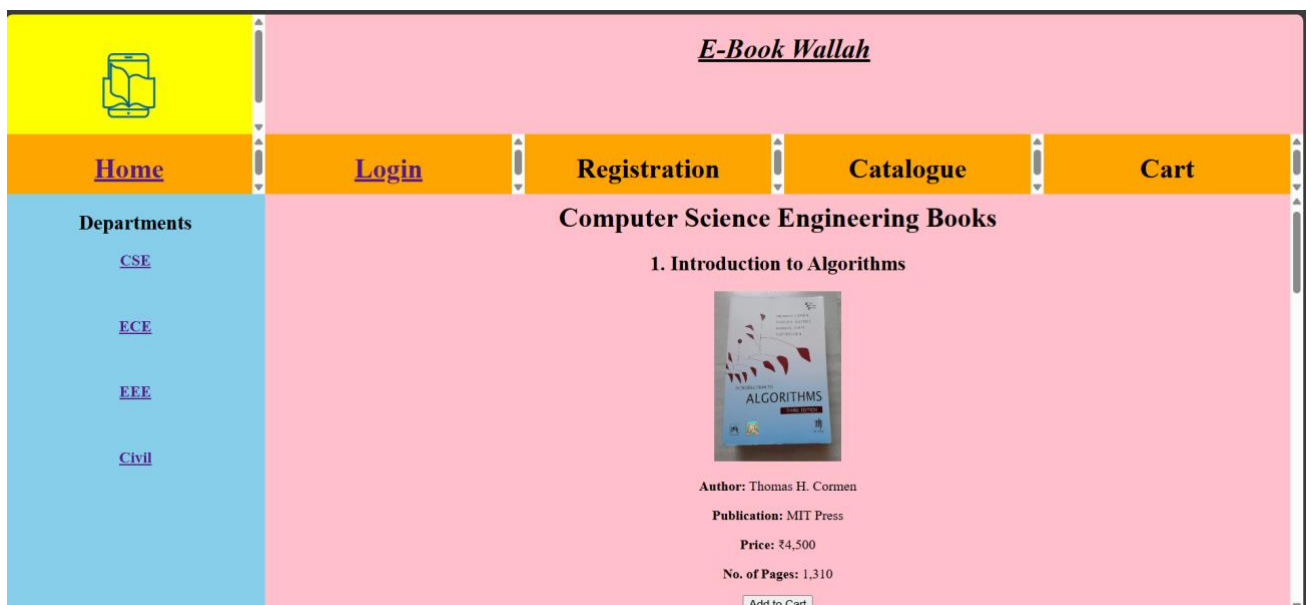
```


<!DOCTYPE html>
<html lang="en">
<head>
<title>Departments Page</title>
</head>
<body bgcolor="skyblue">
<center>
<h2>Departments</h2>
<a href="cse.html" target="main"><h3>CSE</h3></a><br>
<a href="ece.html" target="main"><h3>ECE</h3></a><br>
<a href="eee.html" target="main"><h3>EEE</h3></a><br>
<a href="civil.html" target="main"><h3>Civil</h3></a><br>

</center>
</body>
</html>

```

Output:





[Home](#)
[Login](#)
[Registration](#)
[Catalogue](#)
[Cart](#)

Departments

[CSE](#)

[ECE](#)

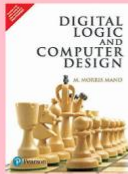
[EEE](#)

[Civil](#)

E-Book Wallah

Electronics & Communication Engineering Books

1. Digital Logic and Computer Design




Author: M. Morris Mano

Publication: Pearson

Price: ₹2,800

No. of Pages: 752

[Add to Cart](#)



[Home](#)
[Login](#)
[Registration](#)
[Catalogue](#)
[Cart](#)

Departments

[CSE](#)

[ECE](#)

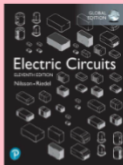
[EEE](#)

[Civil](#)

E-Book Wallah

Electrical & Electronics Engineering Books

1. Electric Circuits




Author: James W. Nilsson, Susan Riedel

Publication: Pearson

Price: ₹3,800

No. of Pages: 752

[Add to Cart](#)



[Home](#)
[Login](#)
[Registration](#)
[Catalogue](#)
[Cart](#)

Departments

[CSE](#)


[ECE](#)

[EEE](#)

[Civil](#)

Civil Engineering Books

1. Principles of Geotechnical Engineering



Author: Braja M. Das

Publication: Cengage Learning

Price: ₹3,000

No. of Pages: 624

Add to Cart

Program No.- 4

Design the cart page required for an online book store website.

Code :

Main Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Main Page</title>
</head>
<frameset rows="20%,10%,70%" border="0">
  <frameset cols="20%,80%" border="0">
    <frame src="logo.html">
    <frame src="websiteName.html">
  </frameset>
  <frameset cols="20%,20%,20%,20%,20%" border="0">
    <frame src="home.html">
    <frame src="login.html">
    <frame src="registration.html">
    <frame src="catalogue.html">
    <frame src="cart.html">
  </frameset>
  <frameset cols="20%,80%" border="0">
    <frame src="departments.html">
    <frame src="description.html" name="main">
  </frameset>
</frameset>
</html>
```

Cart Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Cart Page</title>
</head>
<body bgcolor="orange">
  <center><h1><a href="shopping.html" target="main">Cart</a></h1></center>
</body>
</html>
```

Shopping Page :


```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Document</title>
</head>
<body bgcolor="pink">
  <table align="center" border="1" cellpadding="5" cellspacing="0">
```

```

<tr>
  <th>Sr no.</th>
  <th>Book Name</th>
  <th>Price</th>
  <th>Quantity</th>
  <th>Amount</th>
</tr>
<tr>
  <td>1</td>
  <td>Introduction to Algorithms</td>
  <td>4500</td>
  <td>2</td>
  <td>9000</td>
</tr>
<tr>
  <td>2</td>
  <td>Digital Logic and Computer Design</td>
  <td>2800</td>
  <td>1</td>
  <td>2800</td>
</tr>
<tr>
  <td>3</td>
  <td>Electric Circuits</td>
  <td>3800</td>
  <td>1</td>
  <td>3800</td>
</tr>
<tr>
  <th colspan="3">Total Amount</th>
  <th colspan="2">15600</th>
</tr>
</table>
</body>
</html>

```

Output:



E-Book Wallah

[Home](#)
[Login](#)
[Registration](#)
[Catalogue](#)
[Cart](#)

Departments

[CSE](#)

[ECE](#)

[EEE](#)

[Civill](#)

Sr no.	Book Name	Price	Quantity	Amount
1	Introduction to Algorithms	4500	2	9000
2	Digital Logic and Computer Design	2800	1	2800
3	Electric Circuits	3800	1	3800
Total Amount				15600

Program No.- 5

Create a “registration form” with the following fields:

- 1) Name (Text field)
- 2) Password (password field)
- 3) E-mail id (text field)
- 4) Phone Number (text field)
- 5) Sex (radio button)
- 6) Date of birth (3 select boxes)
- 7) Languages known (checkboxes–English, Telugu, Hindi, Tamil)
- 8) Address (text area)

Code :

Main Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Main Page</title>
</head>
<frameset rows="20%,10%,70%" border="0">
  <frameset cols="20%,80%" border="0">
    <frame src="logo.html">
    <frame src="websiteName.html">
  </frameset>
  <frameset cols="20%,20%,20%,20%,20%" border="0">
    <frame src="home.html">
    <frame src="login.html">
    <frame src="registration.html">
    <frame src="catalogue.html">
    <frame src="cart.html">
  </frameset>
  <frameset cols="20%,80%" border="0">
    <frame src="departments.html">
    <frame src="description.html" name="main">
  </frameset>
</frameset>
</html>
```

Registration Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Registration Page</title>
</head>
<body bgcolor="orange">
  <center><h1><a href="form.html" target="main">Registration</a></h1></center>
</body>
</html>
```


Form Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Registration Form</title>
</head>
<body bgcolor="pink">
  <h1 style="text-align: center;">Registration Form</h1>
  <form>
    <label for="firstName">Name:</label>
    <input type="text" name="fst" placeholder="First Name">
    <input type="text" name="fst" placeholder="Last Name"><br><br>

    <label for="password">Password:</label>
    <input type="password" name="name" placeholder="Password"><br><br>

    <label for="email">Email:</label>
    <input type="text" name="name" placeholder="sample@example.com"><br><br>

    <label for="sex">Sex:</label>
    <input type="radio" name="sex" value="Male"> Male
    <input type="radio" name="sex" value="Female"> Female<br><br>

    <label for="phone">Phone Number:</label>
    <input type="text" name="name" placeholder="+91-XXXXXXXXXX"><br><br>

    <label for="dob">Date Of Birth:</label>
    <input type="text" name="brt" placeholder="Date">
    <input type="text" name="brt" placeholder="Month">
    <input type="text" name="brt" placeholder="Year"><br><br>

    <label for="language">Language Known:</label>
    <input type="radio" name="language" value="English"> English
    <input type="radio" name="language" value="Telugu"> Telugu
    <input type="radio" name="language" value="Hindi"> Hindi
    <input type="radio" name="language" value="Tamil"> Tamil<br><br>

    <label for="address">Address:</label>
    <input type="text" name="name"><br><br>

    <button type="button" onclick="alert('Registration form submitted!')">Register</button>

  </form>
</body>
</html>
```

Output:

The screenshot displays a web application interface. At the top, a browser window shows tabs for YouTube, Maps, and Solutions | JEE Main... A dark notification box in the top right corner states "127.0.0.1:5500 says Registration form submitted!" with an "OK" button. The application has a yellow header with a folder icon and a pink navigation bar with links: [Home](#), [Login](#), [Registration](#), [Catalogue](#), and [Cart](#). The left sidebar is blue and lists departments: [CSE](#), [ECE](#), [EEE](#), and [Civil](#). The main content area is pink and titled "Registration Form". It contains the following fields and options:

- Name: First Name Last Name
- Password:
- Email: sample@example.com
- Sex: ☐ Male ☐ Female
- Phone Number: +91-XXXXXXXXXX
- Date Of Birth: Date Month Year
- Language Known: ☐ English ☐ Telugu ☐ Hindi ☐ Tamil
- Address:
-

Program No. – 6

Write JavaScript to validate the following fields of the above registration page.

- 1. Name (Name should contains alphabets and the length should not be less than 6 characters).**
- 2. Password (Password should not be less than 6 characters length).**

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Page</title>
  <script>
    function validateForm() {
      // Get input values
      const name = document.getElementById('name').value.trim();
      const password = document.getElementById('password').value.trim();

      // Validate Name
      if (!validateName(name)) {
        alert('Name should only contain alphabets and be at least 6 characters long.');
        return false;
      }

      // Validate Password
      if (!validatePassword(password)) {
        alert('Password should be at least 6 characters long.');
        return false;
      }

      // Form is valid
      alert('Registration successful!');
      return true;
    }

    function validateName(name) {
```

```

    // Regex to check if the name contains only alphabets and has a minimum length of 6
characters
    const regex = /^[a-zA-Z]{6,}$/;
    return regex.test(name);
}

function validatePassword(password) {
    // Check if the password has a minimum length of 6 characters
    return password.length >= 6;
}
</script>
<style>
body {
    background-color: #e6f7ff;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}
.form-container {
    background-color: #ffffff;
    border: 1px solid #007acc;
    border-radius: 12px;
    padding: 30px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    width: 300px;
    text-align: left;
}
h1 {
    text-align: center;
    color: #007acc;
    margin-bottom: 20px;
}
label {
    display: block;
    margin-bottom: 8px;
    font-weight: bold;

```

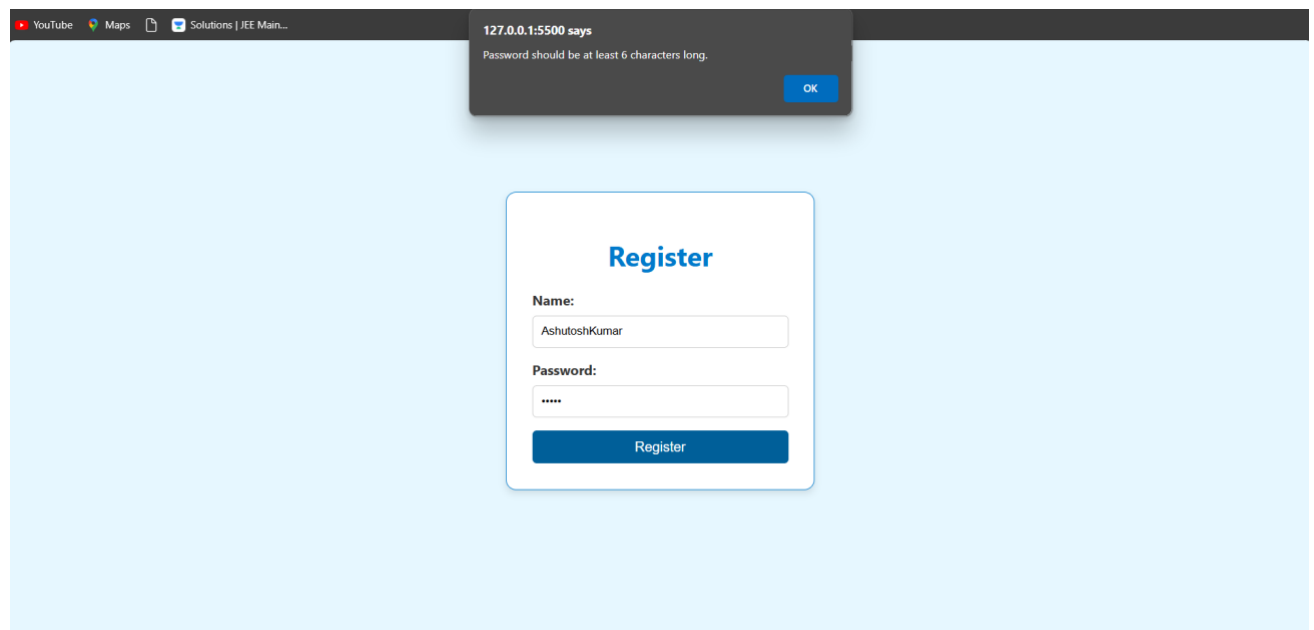
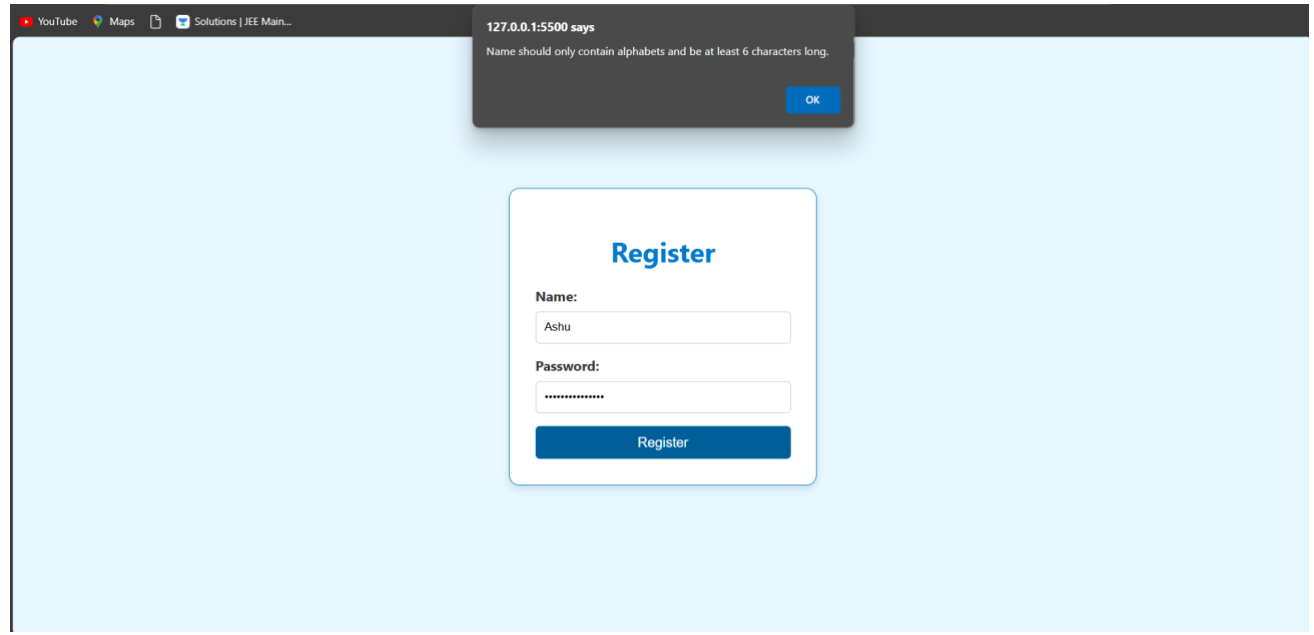
```

        color: #333;
    }
    input[type="text"], input[type="password"] {
        width: 100%;
        padding: 10px;
        margin-bottom: 15px;
        border: 1px solid #ccc;
        border-radius: 5px;
        box-sizing: border-box;
    }
    input[type="submit"] {
        background-color: #007acc;
        color: #ffffff;
        border: none;
        padding: 10px 15px;
        border-radius: 5px;
        cursor: pointer;
        width: 100%;
        font-size: 16px;
    }
    input[type="submit"]:hover {
        background-color: #005f99;
    }
</style>
</head>
<body>
    <div class="form-container">
        <h1>Register</h1>
        <form onsubmit="return validateForm()">
            <div>
                <label for="name">Name:</label>
                <input type="text" id="name" name="name" placeholder="Enter your name" required>
            </div>
            <div>
                <label for="password">Password:</label>
                <input type="password" id="password" name="password" placeholder="Enter your
password" required>
            </div>
            <div>

```

```
<input type="submit" value="Register">
</div>
</form>
</div>
</body>
</html>
```

Output:



Program No- 7

Js VALIDATION:

1. E-mail id (should not contain any invalid and must follow the standard Pattern (name@domain.com))
2. Phone Number (Phone number should contain 10 digits only).

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Page</title>
  <script>
    function validateForm() {
      // Get input values
      var email = document.getElementById('email').value.trim();
      var phoneNumber = document.getElementById('phone').value.trim();

      // Validate Email
      if (!validateEmail(email)) {
        alert('Invalid email address. Please enter a valid email.');
```

```
        return false;
      }

      // Validate Phone Number
      if (!validatePhoneNumber(phoneNumber)) {
        alert('Phone number should contain 10 digits only.');
```

```
        return false;
      }

      // Form is valid
      alert('Registration successful!');
```

```
      return true;
    }

    function validateEmail(email) {
      // Regex to check if the email follows the standard pattern
      var regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/; // Corrected regex
```

```

    return regex.test(email);
}

function validatePhoneNumber(phoneNumber) {
    // Regex to check if the phone number contains exactly 10 digits
    var regex = /^\d{10}$/; // Corrected regex
    return regex.test(phoneNumber);
}
</script>
<style>
    body {
        background-color: #e6f7ff;
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
    }
    form {
        background-color: #fff;
        padding: 20px;
        border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
        width: 300px;
    }
    label {
        display: block;
        margin-bottom: 8px;
        font-weight: bold;
        color: #333;
    }
    input[type="email"], input[type="tel"] {
        width: 100%;
        padding: 8px;
        margin-bottom: 15px;
        border: 1px solid #ccc;
        border-radius: 5px;
        box-sizing: border-box;
    }

```

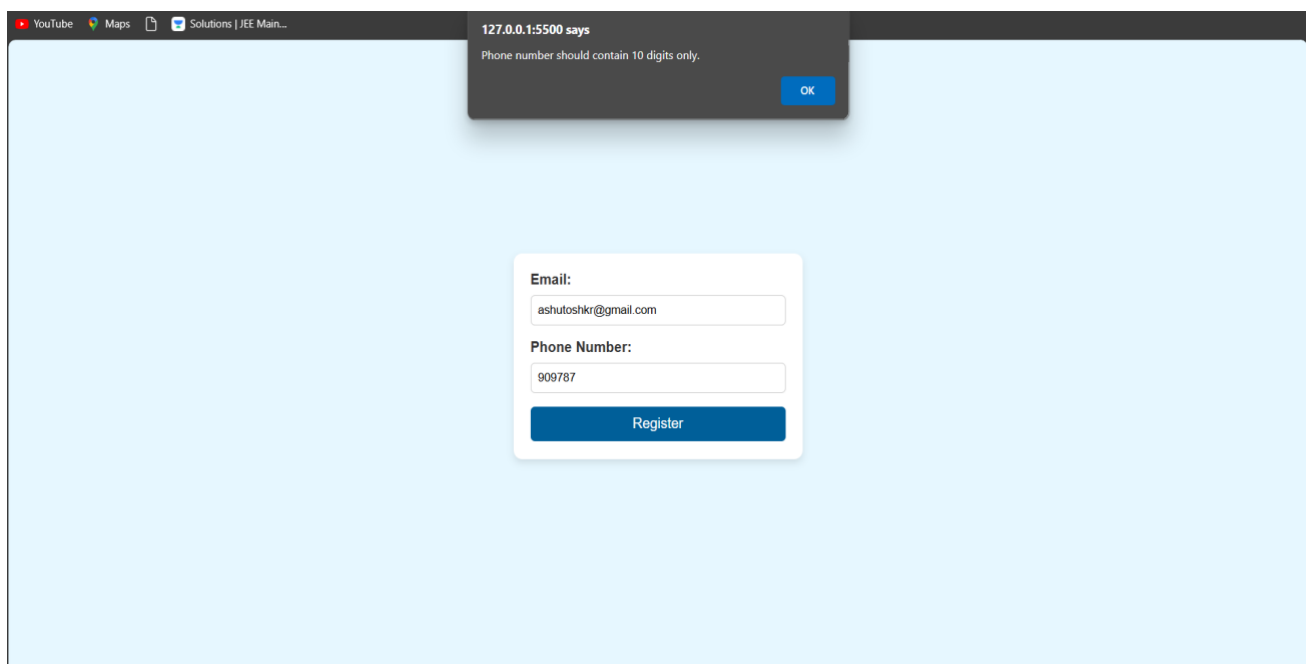
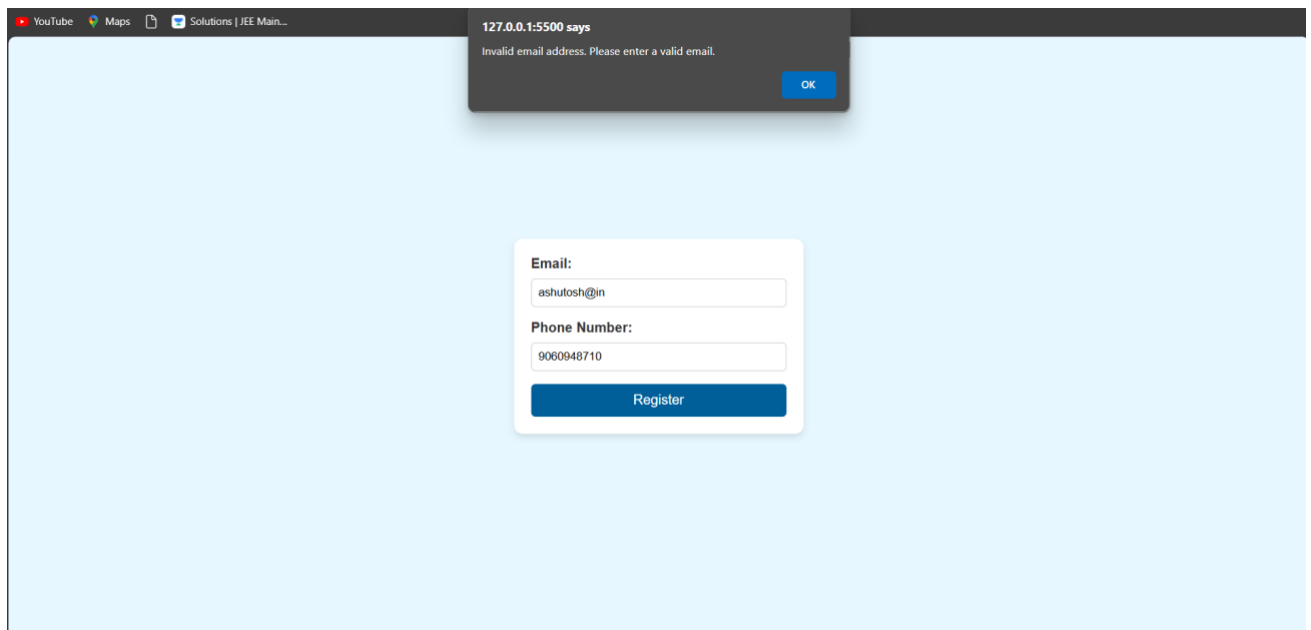


```

    }
    input[type="submit"] {
        background-color: #007acc;
        color: #fff;
        border: none;
        padding: 10px;
        border-radius: 5px;
        cursor: pointer;
        width: 100%;
        font-size: 16px;
    }
    input[type="submit"]:hover {
        background-color: #005f99;
    }
</style>
</head>
<body>
    <form onsubmit="return validateForm()">
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" placeholder="Enter your email" required>
        <label for="phone">Phone Number:</label>
        <input type="tel" id="phone" name="phone" placeholder="Enter 10-digit phone number"
required>
        <input type="submit" value="Register">
    </form>
</body>
</html>

```

Output:



Program No- 8

CSS: Design a web page using CSS (Cascading Style Sheets) which includes the following :

1) Use different font, styles:

In the style definition you define how each selector should work (font, color etc.). Then, in the body of your pages, you refer to these selectors to activate the styles.

2) Set a background image for both the page and single elements on the page.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Survey Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-image: url('https://www.splitshire.com/wp-content/uploads/2014/11/SplitShire-03692-1800x1200.jpg');
      background-size: cover;
      margin: 0;
      padding: 0;
    }

    h1 {
      font-family: 'Cursive', sans-serif;
      background-color: rgba(0, 0, 0, 0.6);
      color: white;
      text-align: center;
      padding: 20px;
      margin-bottom: 20px;
      border-radius: 10px;
    }

    .survey-container {
      background-color: rgba(255, 255, 255, 0.8);
      border-radius: 10px;
```

```

padding: 20px;
width: 90%;
max-width: 600px;
margin: 0 auto;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}

input[type="text"], input[type="email"], input[type="submit"] {
width: 100%;
padding: 10px;
margin: 10px 0;
border-radius: 5px;
border: 1px solid #ccc;
font-size: 16px;
}

input[type="text"]:focus, input[type="email"]:focus {
border-color: #007acc;
outline: none;
}

input[type="submit"] {
background-color: #007acc;
color: white;
cursor: pointer;
font-size: 18px;
}

input[type="submit"]:hover {
background-color: #005f99;
}

table {
width: 100%;
margin-top: 20px;
border-collapse: collapse;
}

th, td {

```

```

padding: 10px;
text-align: center;
border: 1px solid #ccc;
}

th {
background-color: #f2f2f2;
}

tr:hover {
background-color: #f1f1f1;
}

label {
font-weight: bold;
display: block;
margin-bottom: 5px;
}

</style>
</head>
<body>

<h1>Customer Survey Form</h1>

<div class="survey-container">
  <form>
    <label for="fname">First Name:</label>
    <input type="text" id="fname" name="fname" placeholder="Enter your first name"
required>

    <label for="lname">Last Name:</label>
    <input type="text" id="lname" name="lname" placeholder="Enter your last name" required>

    <label for="email">Email Address:</label>
    <input type="email" id="email" name="email" placeholder="Enter your email address"
required>

    <label for="phone">Phone Number:</label>

```

<input type="text" id="phone" name="phone" placeholder="Enter your phone number"
required>

<label for="address">Service Address:</label>

<input type="text" id="address" name="address" placeholder="Enter your service address"
required>

<label for="service-again">How likely are you to use the service again in the future?</label>

<input type="text" id="service-again" name="service-again" placeholder="Enter your
feedback" required>

<h2>Rate the following criteria for service excellence:</h2>

<table>

<tr>

<th>Criteria</th>

<th>Poor</th>

<th>Satisfactory</th>

<th>Good</th>

<th>Excellent</th>

</tr>

<tr>

<td>Timeliness</td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

</tr>

<tr>

<td>Personalization</td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

</tr>

<tr>

<td>Problem-solving</td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

<td><input type="checkbox"></td>

```

        <td><input type="checkbox"></td>
    </tr>
</table>
<input type="submit" value="Submit">
</form>
</div>
</body>
</html>

```

Output:

Customer Survey Form

First Name:
Enter your first name

Last Name:
Enter your last name

Email Address:
Enter your email address

Phone Number:
Enter your phone number

Service Address:
Enter your service address

How likely are you to use the service again in the future?
Enter your feedback

Rate the following criteria for service excellence:

Enter your last name

Email Address:
Enter your email address

Phone Number:
Enter your phone number

Service Address:
Enter your service address

How likely are you to use the service again in the future?
Enter your feedback

Rate the following criteria for service excellence:

Criteria	Poor	Satisfactory	Good	Excellent
Timeliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personalization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem-solving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Submit

Program No.-9

Design a Web Page using CSS of the college website for the following controls: 1) Control the repetition of the image with the background-repeat property.

2) Define styles for links as

A:link

A:visited

A:active

A:hover

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>College Website</title>
  <style>
    body {
      font-family: 'Lato', sans-serif;
      font-size: 16px;
      margin: 0;
      padding: 0;
      background-image: url('https://images.unsplash.com/photo-1695664223145-58fb4b3f5e95?w=500&auto=format&fit=crop&q=60&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxlZGl0b3JpYWwtZmVlZHVwzfHx8ZW58MHx8fHh8');
      background-size: cover;
      background-repeat: no-repeat;
      background-color: rgba(0, 0, 0, 0.4);
      min-height: 100vh;
      display: flex;
      flex-direction: column;
      color: #fff;
    }

    header {
      background-color: #333;
      color: #fff;
      text-align: center;
```



```
padding: 30px;
border-bottom: 2px solid #fff;
box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);
}
```

```
h1 {
  font-family: 'Roboto', sans-serif;
  font-size: 36px;
  margin: 0;
}
```

```
nav ul {
  list-style-type: none;
  margin: 20px 0 0;
  padding: 0;
}
```

```
nav li {
  display: inline-block;
  margin-right: 40px;
}
```

```
nav a {
  color: #fff;
  text-decoration: none;
  font-weight: bold;
  transition: color 0.3s ease;
}
```

```
nav a:link {
  color: bisque;
}
```

```
nav a:visited {
  color: green;
}
```

```
nav a:hover {
  color: orchid;
}
```

```

    text-shadow: 0 1px 0 rgba(0, 0, 0, 0.2);
}

nav a:active {
    color: red;
}

.main-content {
    max-width: 800px;
    margin: 80px auto;
    padding: 40px;
    background-color: rgba(255, 255, 255, 0.8);
    border-radius: 5px;
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.2);
}

.main-content h2 {
    font-size: 28px;
    color: #333;
}

.main-content p {
    font-size: 18px;
    color: #555;
}

.btn {
    display: inline-block;
    padding: 10px 20px;
    margin-top: 20px;
    background-color: #007acc;
    color: #fff;
    text-decoration: none;
    border-radius: 5px;
    transition: background-color 0.3s ease;
}

.btn:hover {
    background-color: #005f99;
}

```

```
}

.feature {
  background-color: rgba(255, 255, 255, 0.8);
  padding: 30px;
  margin: 20px auto;
  width: 90%;
  max-width: 600px;
  border-radius: 10px;
  box-shadow: 0 4px 10px rgba(0, 0, 0, 0.2);
}

.feature h3 {
  font-size: 24px;
  color: #333;
}

.feature p {
  color: #555;
}

.footer {
  background-color: #333;
  color: #fff;
  text-align: center;
  padding: 20px;
  position: absolute;
  bottom: 0;
  width: 100%;
}

.footer a {
  color: #fff;
  text-decoration: none;
  margin: 0 15px;
}

.footer a:hover {
  color: orchid;
}
```

```

    }

    @media (max-width: 768px) {
        nav li {
            display: block;
            margin: 10px 0;
        }

        .main-content {
            padding: 20px;
            margin: 20px;
        }

        .feature {
            padding: 20px;
        }
    }
</style>
</head>
<body>

<header>
    <h1>Welcome to Passion Academy Of Technology Website</h1>
    <nav>
        <ul>
            <li><a href="#">Home</a></li>
            <li><a href="#">Courses</a></li>
            <li><a href="#">Admissions</a></li>
            <li><a href="#">Academics</a></li>
            <li><a href="#">Placement</a></li>
            <li><a href="#">About Us</a></li>
        </ul>
    </nav>
</header>

<section class="main-content">
    <h2>Explore the Opportunities We Offer</h2>
    <p>Our college provides a range of academic programs and opportunities for student growth.
    Learn more about our services, admissions process, and campus life.</p>

```

```
<a href="#" class="btn">Learn More</a>
</section>
```

```
<section class="feature">
```

```
<h3>Why Choose Our College?</h3>
```

```
<p>Our college offers cutting-edge facilities, experienced faculty, and a thriving campus
environment. Here, we focus on holistic development, providing students with opportunities to grow
in both academic and extracurricular activities.</p>
```

```
</section>
```

```
<section class="feature">
```

```
<h3>Admissions Open!</h3>
```

```
<p>We are now accepting applications for the upcoming academic year. Check out our
admissions page for more information on how to apply and secure your spot at our esteemed
college.</p>
```

```
</section>
```

```
<footer class="footer">
```

```
<p>&copy; 2024 Passion Academy Of Technology. All rights reserved.</p>
```

```
<p>
```

```
<a href="#">Privacy Policy</a> | <a href="#">Terms of Service</a> | <a href="#">Contact
Us</a>
```

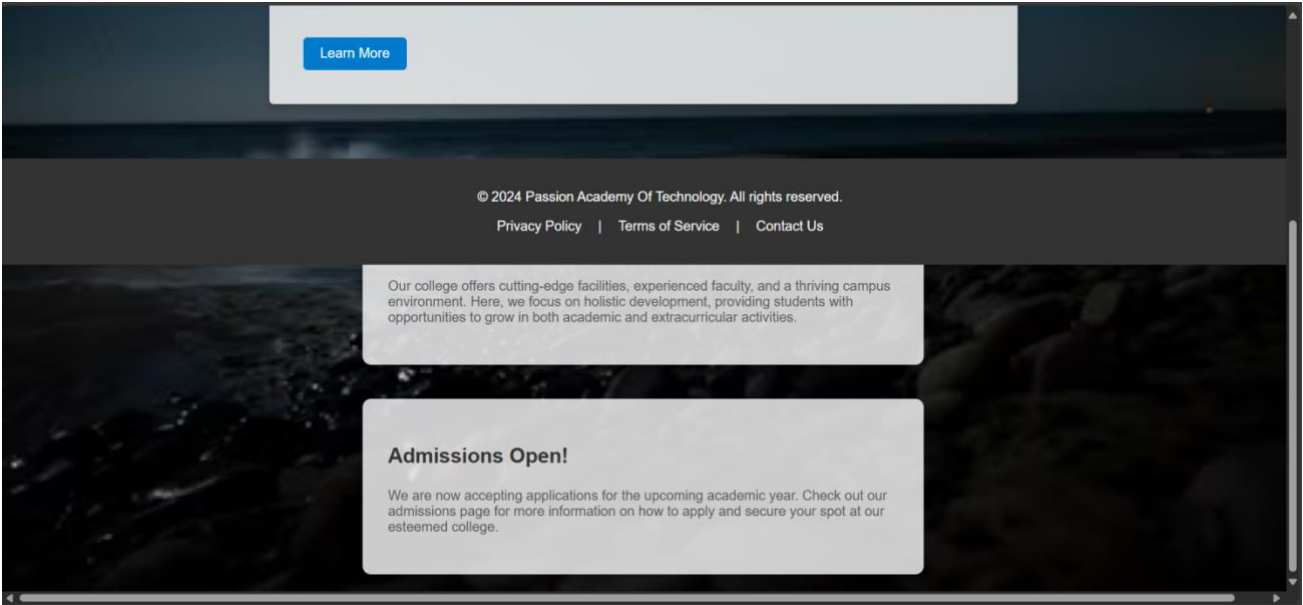
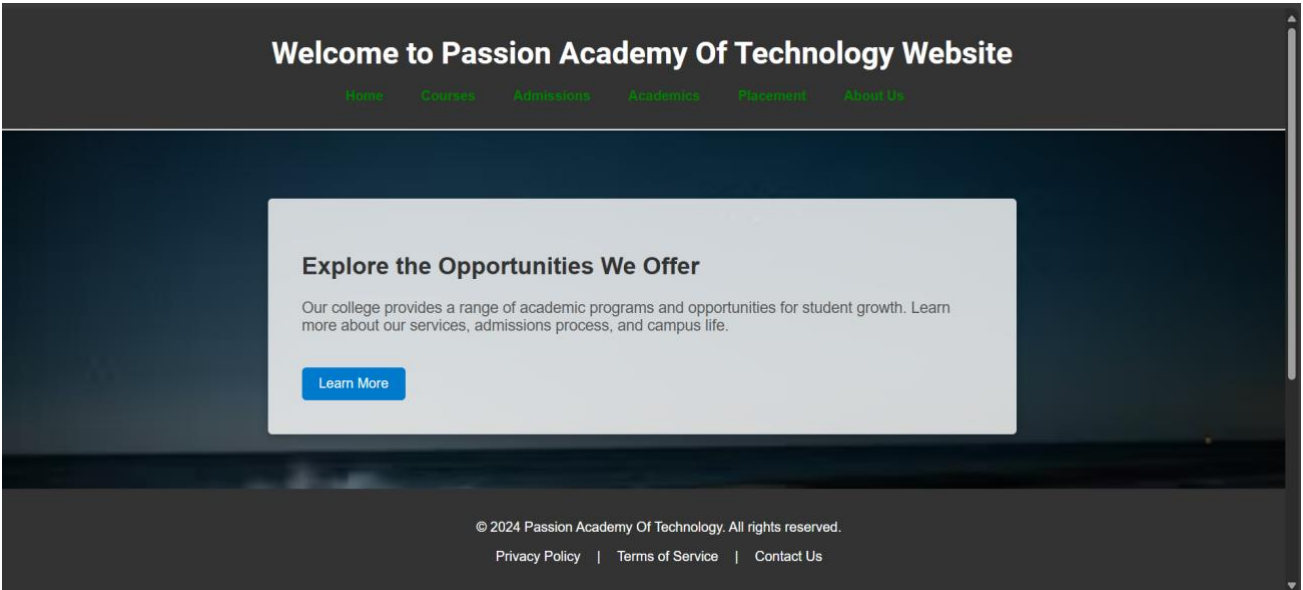
```
</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```

Output:



Program No.-10

Develop static Web pages and try to implement all topics of html, CSS and Js within the topic.

To-do list

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Ultimate To-Do List</title>
  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css"
rel="stylesheet">
  <style>
    /* General Reset */
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }
    body {
      font-family: 'Arial', sans-serif;
      background-color: #f3f4f6;
      color: #333;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      padding: 20px;
    }
    .dark-mode {
      background-color: #121212;
      color: #f1f1f1;
    }
    #todo-container {
      background: #fff;
```

```

width: 100%;
max-width: 500px;
padding: 20px;
border-radius: 15px;
box-shadow: 0px 10px 20px rgba(0, 0, 0, 0.1);
transition: background 0.3s, color 0.3s;
}
.dark-mode #todo-container {
  background: #1e1e1e;
}
h2 {
  text-align: center;
  color: #e74c3c;
}
.dark-mode h2 {
  color: #f39c12;
}
.input-container {
  display: flex;
  gap: 10px;
  margin-top: 20px;
}
input[type="text"] {
  flex: 1;
  padding: 10px;
  border: 1px solid #ddd;
  border-radius: 5px;
  font-size: 16px;
}
button {
  background-color: #27ae60;
  color: white;
  border: none;
  padding: 10px 20px;
  cursor: pointer;
  border-radius: 5px;
  font-size: 16px;
  transition: background 0.3s;
}

```



```

button:hover {
    background-color: #229954;
}
.dark-mode button {
    background-color: #3498db;
}
ul {
    list-style: none;
    margin: 20px 0 0;
    padding: 0;
}
li {
    background: #f8f9fa;
    margin-bottom: 10px;
    padding: 10px;
    border-radius: 5px;
    display: flex;
    justify-content: space-between;
    align-items: center;
    animation: fadeIn 0.5s;
    transition: background 0.3s;
}
.dark-mode li {
    background: #2a2a2a;
}
.task-text {
    flex: 1;
    padding: 0 10px;
}
.task-text.completed {
    text-decoration: line-through;
    color: #95a5a6;
}
.actions {
    display: flex;
    gap: 10px;
}
.filter-container {
    margin-top: 20px;

```

```

    display: flex;
    justify-content: space-between;
}
.filter-container button {
    background-color: #ecf0f1;
    color: #333;
    padding: 5px 10px;
    border-radius: 5px;
    font-size: 14px;
}
.filter-container button.active {
    background-color: #3498db;
    color: white;
}
@keyframes fadeIn {
    from {
        opacity: 0;
        transform: translateY(-10px);
    }
    to {
        opacity: 1;
        transform: translateY(0);
    }
}
</style>
</head>
<body>
<div id="todo-container">
<h2>Ultimate To-Do List</h2>
<div class="input-container">
    <input type="text" id="taskInput" placeholder="Add a new task...">
    <button id="addTaskBtn" onclick="addTask()">Add</button>
</div>
<div class="filter-container">
    <button onclick="filterTasks('all')" class="active">All</button>
    <button onclick="filterTasks('completed')">Completed</button>
    <button onclick="filterTasks('pending')">Pending</button>
</div>
<ul id="taskList">

```

```

    <!-- Tasks will be dynamically added here -->
</ul>
<button onclick="toggleDarkMode()">Toggle Dark Mode</button>
</div>
<script>
    const taskInput = document.getElementById("taskInput");
    const taskList = document.getElementById("taskList");
    const filterButtons = document.querySelectorAll(".filter-container button");
    function addTask() {
        const taskText = taskInput.value.trim();
        if (taskText === "") {
            alert("Please enter a task!");
            return;
        }
        const li = document.createElement("li");
        const span = document.createElement("span");
        span.className = "task-text";
        span.textContent = taskText;
        const actions = document.createElement("div");
        actions.className = "actions";
        const completeBtn = document.createElement("button");
        completeBtn.textContent = "Complete";
        completeBtn.onclick = () => {
            span.classList.toggle("completed");
        };
        const deleteBtn = document.createElement("button");
        deleteBtn.textContent = "Delete";
        deleteBtn.onclick = () => li.remove();
        actions.appendChild(completeBtn);
        actions.appendChild(deleteBtn);
        li.appendChild(span);
        li.appendChild(actions);
        taskList.appendChild(li);
        taskInput.value = "";
    }
    function toggleDarkMode() {
        document.body.classList.toggle("dark-mode");
    }
    function filterTasks(filter) {

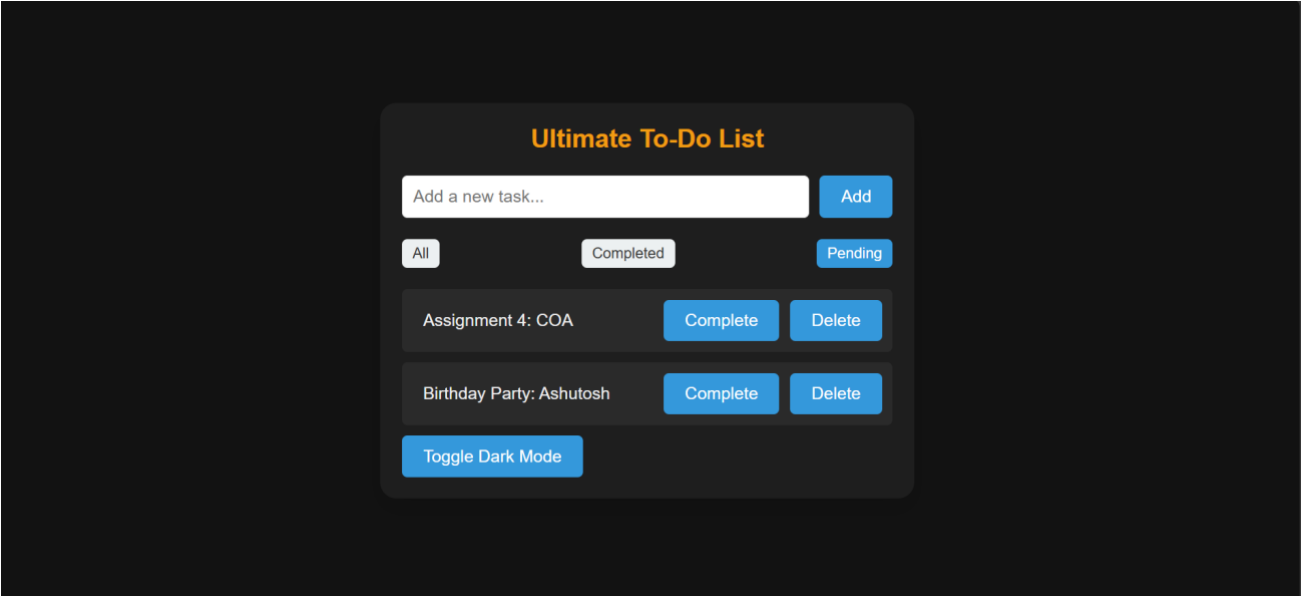
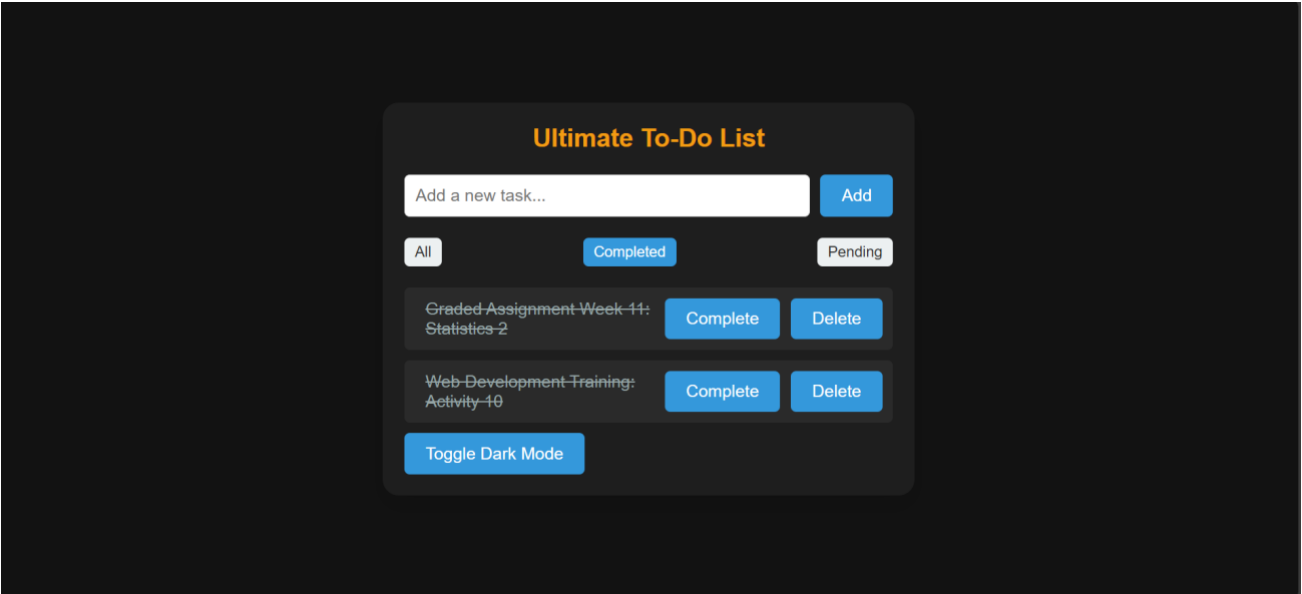
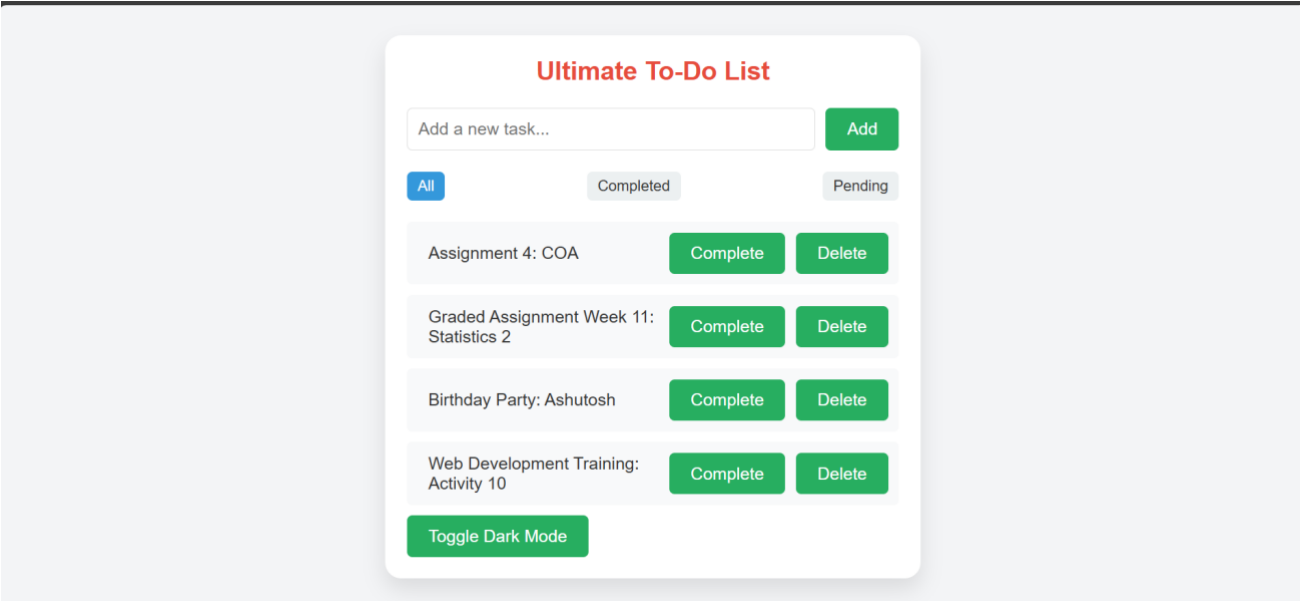
```

```

filterButtons.forEach(button => button.classList.remove("active"));
document.querySelector(`button[onclick="filterTasks('${filter}')]`).classList.add("active");
const tasks = taskList.children;
for (let task of tasks) {
  const isCompleted = task.querySelector(".task-text").classList.contains("completed");
  task.style.display = filter === "all" ||
    (filter === "completed" && isCompleted) ||
    (filter === "pending" && !isCompleted)
    ? "flex"
    : "none";
}
}
</script>
</body>
</html>

```

Output(To-Do-List):



Program No. - 11

Create an HTML form with multiple textboxes. When the form runs in the browser, fill the textboxes with data. Write JavaScript code to verify that all textboxes have been filled. If any textbox is left empty, display a popup alert indicating which textbox is empty.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Interactive Form</title>
  <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap"
rel="stylesheet">
  <style>
    /* General Reset */
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    body {
      font-family: 'Roboto', sans-serif;
      background: linear-gradient(135deg, #74ebd5, #9face6);
      height: 100vh;
      display: flex;
      justify-content: center;
      align-items: center;
      color: #333;
    }

    form {
```

```

border-radius: 15px;
box-shadow: 0 10px 30px rgba(0, 0, 0, 0.2);
width: 90%;
max-width: 400px;
animation: fadeIn 0.8s ease-in-out;
}

h1 {
  text-align: center;
  margin-bottom: 20px;
  color: #4a4a4a;
}

.form-group {
  margin-bottom: 20px;
  position: relative;
}

label {
  position: absolute;
  top: -12px;
  left: 10px;
  background-color: #fff;
  padding: 0 5px;
  font-size: 14px;
  font-weight: 500;
  color: #666;
}

input {
  width: 100%;
  padding: 12px;
  font-size: 16px;
  border: 2px solid #ddd;
  border-radius: 8px;
  outline: none;
  transition: border-color 0.3s ease, box-shadow 0.3s ease;
}

```

```

input:focus {
  border-color: #6c63ff;
  box-shadow: 0 0 8px rgba(108, 99, 255, 0.5);
}

input.error {
  border-color: #e74c3c;
  background-color: #fee;
}

.error-message {
  color: #e74c3c;
  font-size: 13px;
  display: none;
  margin-top: 5px;
}

button {
  width: 100%;
  padding: 12px;
  background-color: #6c63ff;
  color: #fff;
  border: none;
  border-radius: 8px;
  font-size: 18px;
  font-weight: bold;
  cursor: pointer;
  transition: background-color 0.3s ease, transform 0.2s ease;
}

button:hover {
  background-color: #5a52d6;
}

button:active {
  transform: scale(0.98);
}

@keyframes fadeIn {

```



```

    from {
        opacity: 0;
        transform: translateY(-20px);
    }
    to {
        opacity: 1;
        transform: translateY(0);
    }
}

@media (max-width: 600px) {
    form {
        padding: 20px;
    }
}
</style>
</head>
<body>
<form id="interactiveForm" onsubmit="return validateForm();">
    <h1>Form</h1>
    <div class="form-group">
        <label for="name">Name</label>
        <input type="text" id="name" name="Name" placeholder="Enter your name">
        <span class="error-message">Please provide your name.</span>
    </div>
    <div class="form-group">
        <label for="age">Age</label>
        <input type="text" id="age" name="Age" placeholder="Enter your age">
        <span class="error-message">Please provide your age.</span>
    </div>
    <div class="form-group">
        <label for="gender">Gender</label>
        <input type="text" id="gender" name="Gender" placeholder="Enter your gender">
        <span class="error-message">Please provide your gender.</span>
    </div>
    <div class="form-group">
        <label for="locality">Locality</label>
        <input type="text" id="locality" name="Locality" placeholder="Enter your locality">
        <span class="error-message">Please provide your locality.</span>
    </div>

```

```

    </div>
    <button type="submit">Submit</button>
  </form>

  <script>
    function validateForm() {
      const form = document.getElementById("interactiveForm");
      const inputs = form.querySelectorAll("input");
      let isValid = true;

      inputs.forEach(input => {
        const errorMessage = input.nextElementSibling;

        if (input.value.trim() === "") {
          input.classList.add("error");
          errorMessage.style.display = "block";
          isValid = false;
        } else {
          input.classList.remove("error");
          errorMessage.style.display = "none";
        }
      });

      if (isValid) {
        alert("Form submitted successfully!");
      }

      return isValid; // Prevents form submission if validation fails
    }
  </script>
</body>
</html>

```

Output:

Form

Name
ASHUTOSH KUMAR SINGH

Age
19

Gender
Male

Locality
Enter your locality

Please provide your locality.

Submit

127.0.0.1:5500 says
Form submitted successfully!

OK

Form

Name
ASHUTOSH KUMAR SINGH

Age
19

Gender
Male

Locality
Chhapra,Bihar

Submit

Program No. - 12

Write a JavaScript code to find factorial of N. (Use recursive function).

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Factorial Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f3f4f6;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }

    .container {
      text-align: center;
      padding: 20px;
      background-color: #fff;
      border-radius: 10px;
      box-shadow: 0 4px 10px rgba(0, 0, 0, 0.2);
    }

    h1 {
      color: #333;
    }

    input {
      padding: 10px;
      font-size: 16px;
      margin-top: 20px;
      border: 1px solid #ccc;
```

```

    border-radius: 5px;
    width: 80%;
    box-sizing: border-box;
}

button {
    margin-top: 20px;
    padding: 10px 20px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-size: 16px;
}

button:hover {
    background-color: #0056b3;
}

#result {
    margin-top: 20px;
    font-size: 18px;
    color: #007bff;
}
</style>
</head>
<body>
    <div class="container">
        <h1>Factorial Calculator</h1>
        <input type="number" id="numberInput" placeholder="Enter a positive number">
        <button onclick="calculateFactorial()">Calculate Factorial</button>
        <div id="result"></div>
    </div>

    <script>
        function factorial(n) {
            if (n === 0) {
                return 1;
            }

```

```

    } else {
        return n * factorial(n - 1);
    }
}

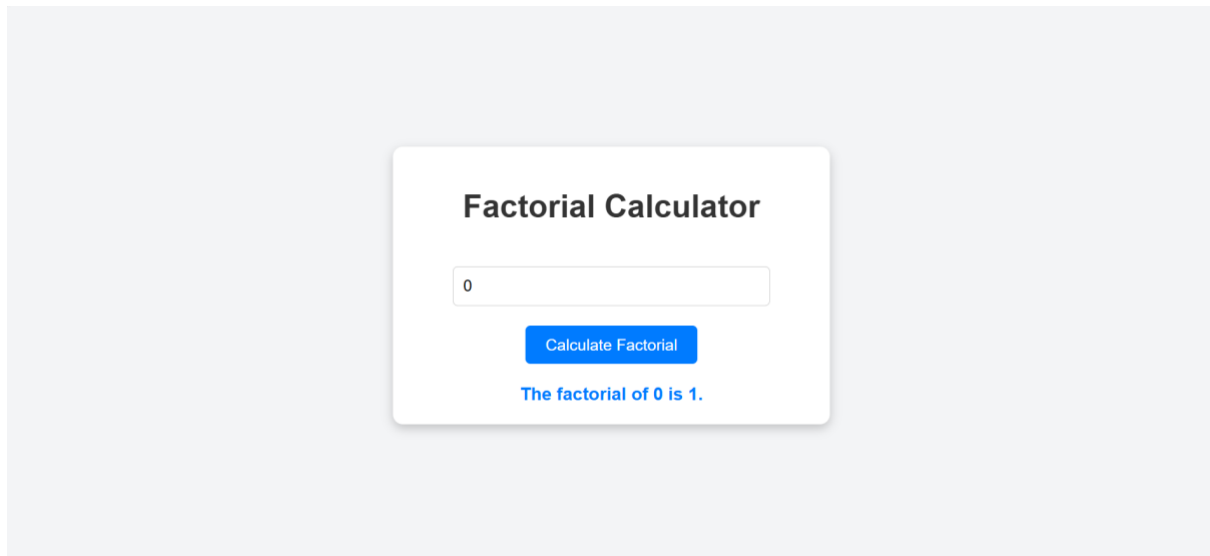
function calculateFactorial() {
    const num = document.getElementById("numberInput").value;
    const resultDiv = document.getElementById("result");

    if (num === "" || num < 0) {
        alert("Please enter a positive number.");
        resultDiv.innerHTML = ""; // Clear the result
    } else {
        const result = factorial(Number(num));
        resultDiv.innerHTML = `<strong>The factorial of ${num} is ${result}</strong>`;
    }
}

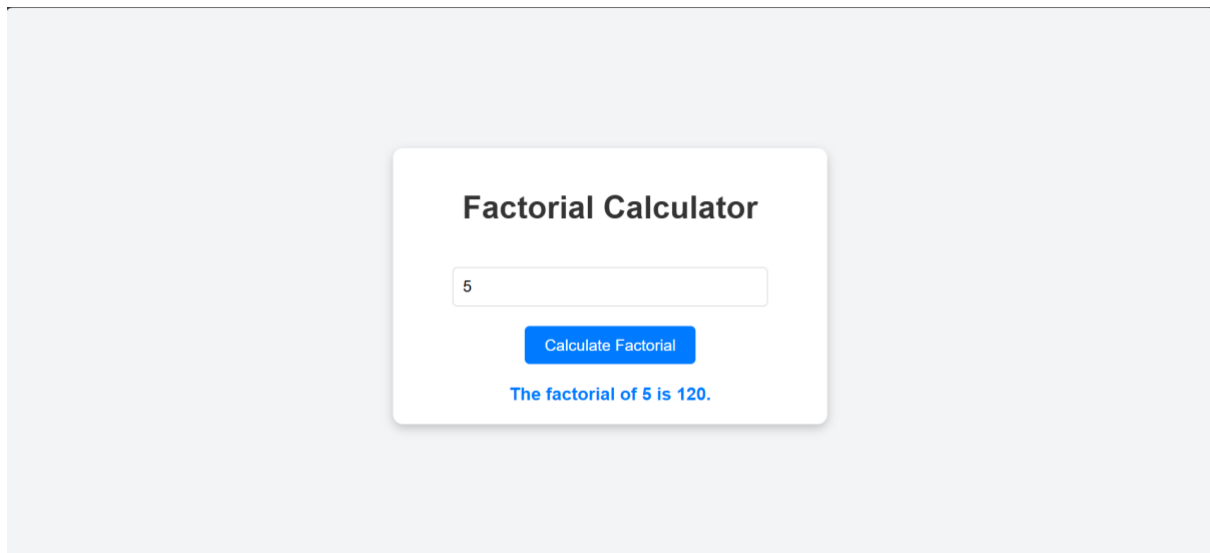
</script>
</body>
</html>

```

Output:



A screenshot of a web application titled "Factorial Calculator". It features a white input field containing the number "0", a blue button labeled "Calculate Factorial", and a blue text output below it that reads "The factorial of 0 is 1.".



A screenshot of the same "Factorial Calculator" web application. The input field now contains the number "5", and the blue output text below the button reads "The factorial of 5 is 120.".

