

**Institute of Computer Technology**  
**B. Tech. Computer Science and Engineering**

**Semester: IV**

**Sub: Front End Technologies**

**Course Code: 2CSE401**

## Practical Number:4

### Objective:

*To learn about CSS, control structure, String with predefined function, array, and form validation.*

**Practical Definition:** Design an appropriate tutorial website, where you have to follow the following instructions:

1. Create sign up page with the following information like (first name, last name, contact number and email address.  
[Note:1: Contact number field should take only, digit start with 7,8, or 9, and it should be maximum 10- digit number, less than 10-digit number should not be allowed.]  
[Note:2: Email field also should take in email format only, otherwise it should give error message.]
2. After sign up the page, log in with user id and password (user id will be you email address, and password will be your contact number), if it is correct, then main website page should be open, otherwise login page should be terminated after maximum three wrong attempt.
3. In main page, you should add, header section, it should be 10% height of the page, and header section should contain one image as logo of your tutorial website, and your information should be after logo section
4. After using of header section, you have use navigation bar like: HTML tutorial, CSS tutorial, Jscript tutorial, and etc. This all tutorial page should be open just below the navigation bar line. [Tutorial page should display in 80% area in horizontal direction.]
5. At last, you have to use footer section, where you have to give all the necessary information related to you and website.

**Code :****- auth.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Authentication - Tutorial Website</title>
  <link rel="stylesheet" href="auth.css">
</head>
<body>
  <!-- Authentication Container -->
  <div class="auth-container">
    <!-- Sign Up Form -->
    <div class="auth-box">
      <h2>Sign Up</h2>
      <form id="signup-form" onsubmit="return handleSignUp()">
        <input type="text" placeholder="First Name" id="firstName" required>
        <input type="text" placeholder="Last Name" id="lastName" required>
        <input type="text" placeholder="Contact Number" id="contactNumber" required>
        <input type="email" placeholder="Email Address" id="emailAddress" required>
        <input type="password" placeholder="Password" id="password" required>
        <button type="submit">Sign Up</button>
      </form>
    </div>

    <!-- Login Form -->
    <div class="auth-box">
      <h2>Login</h2>
      <form id="login-form" onsubmit="return handleLogin()">
        <input type="email" placeholder="Email Address" id="loginEmail" required>
        <input type="password" placeholder="Password" id="loginPassword" required>
        <button type="submit">Login</button>
      </form>
    </div>
  </div>

  <!-- JavaScript for Authentication -->
  <script>
    // Sign Up Function
    function handleSignUp(){
      const email = document.getElementById('emailAddress').value;
      const contactNumber = document.getElementById('contactNumber').value;
      const password = document.getElementById('password').value;
      const contactPattern = /^[789]\d{9}$/;
      const emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
    if (!contactPattern.test(contactNumber)) {
        alert('Please enter a valid 10-digit contact number starting with 7, 8, or 9.');
```

```
        return false;
    }

    if (!emailPattern.test(email)) {
        alert('Please enter a valid email address.');
```

```
        return false;
    }

    // Store user credentials temporarily (for demo purposes)
    localStorage.setItem('email', email);
    localStorage.setItem('password', password);
    alert('Sign Up Successful! You can now log in.');
```

```
    return true;
}

// Login Function
function handleLogin() {
    const loginEmail = document.getElementById('loginEmail').value;
    const loginPassword = document.getElementById('loginPassword').value;

    // Retrieve stored credentials
    const storedEmail = localStorage.getItem('email');
    const storedPassword = localStorage.getItem('password');

    // Authentication
    if (loginEmail === storedEmail && loginPassword === storedPassword) {
        alert('Login Successful!');
```

```
        window.location.href = 'index.html'; // Redirect to index.html
    } else {
        alert('Invalid Email or Password. Please try again.');
```

```
    }
    return false;
}
</script>
</body>
</html>
```

#### - **auth.css**

```
body {
    font-family: 'Arial', sans-serif;
    background: #f0f2f5;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
```

```
    align-items: center;
    height: 100vh;
}

.auth-container{
    display: flex;
    gap: 50px;
    padding: 20px;
}

.auth-box {
    background: #fff;
    border-radius: 10px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
    padding: 20px 30px;
    width: 300px;
}

.auth-box h2 {
    text-align: center;
    color: #333;
}

.auth-box form {
    display: flex;
    flex-direction: column;
    gap: 15px;
}

.auth-box input {
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
    font-size: 14px;
}

.auth-box input:focus {
    border-color: #007BFF;
    outline: none;
    box-shadow: 0 0 5px rgba(0, 123, 255, 0.5);
}

.auth-box button {
    background: #007BFF;
    color: #fff;
    border: none;
    border-radius: 5px;
    padding: 10px;
    font-size: 16px;
}
```

```
cursor: pointer;
transition: background 0.3s;
}
```

```
.auth-box button:hover {
  background: #0056b3;
}
```

- **Output :-**

The screenshot displays a web application interface with two main forms: 'Sign Up' and 'Login'. The 'Sign Up' form includes input fields for 'First Name', 'Last Name', 'Contact Number', 'Email Address', and 'Password', followed by a blue 'Sign Up' button. The 'Login' form includes input fields for 'Email Address' and 'Password', followed by a blue 'Login' button. A dark overlay at the bottom of the screen shows a success message: '127.0.0.1:5500 says Sign Up Successful! You can now log in.' with an 'OK' button. The background is a light gray, and the forms are white with rounded corners and shadows.

The screenshot shows a web application interface. At the top, a dark notification box displays the message "127.0.0.1:5500 says Login Successful!" with an "OK" button. Below this, there are two white cards on a light gray background. The left card is titled "Sign Up" and contains five input fields: "First Name", "Last Name", "Contact Number", "Email Address", and "Password". A blue "Sign Up" button is at the bottom. The right card is titled "Login" and contains two input fields: one for email (pre-filled with "abcd@gmail.com") and one for password (masked with "\*\*\*\*\*"). A blue "Login" button is at the bottom.

## - Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Tutorial Website</title>
  <link rel="stylesheet" href="index.css">
</head>
<body>
  <!-- Header Section -->
  <header>
    
    <h1>Welcome to the Tutorial Website</h1>
  </header>

  <!-- Navigation Bar -->
  <nav>
    <ul>
      <li><a href="#">HTML Tutorial</a></li>
      <li><a href="#">CSS Tutorial</a></li>
      <li><a href="#">JavaScript Tutorial</a></li>
    </ul>
  </nav>
```

```
<!-- Main Content Area -->
<main>
  <h2>Learn and Explore</h2>
  <p>Welcome to our tutorial website where you can learn HTML, CSS, and JavaScript in an
easy and interactive way.</p>
</main>

<!-- Footer Section -->
<footer>
  <p>&copy; 2025 Tutorial Website. All rights reserved.</p>
</footer>
</body>
</html>
```

#### - **index.css**

```
body {
  font-family: 'Arial', sans-serif;
  background: #f0f2f5;
  margin: 0;
  padding: 0;
}

header {
  display: flex;
  align-items: center;
  background: #007BFF;
  color: #fff;
  padding: 20px;
  height: 10vh;
}

.logo {
  width: 50px;
  height: 50px;
  margin-right: 20px;
}

nav ul {
  display: flex;
  gap: 20px;
  list-style: none;
  padding: 10px;
  background: #fff;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}
```



```
nav ul li a {
  text-decoration: none;
  color: #007BFF;
  font-weight: bold;
  transition: color 0.3s;
}

nav ul li a:hover {
  color: #0056b3;
}

main {
  padding: 20px;
  width: 80%;
  margin: auto;
}

footer {
  text-align: center;
  background: #f1f1f1;
  padding: 10px;
  position: fixed;
  bottom: 0;
  width: 100%;
}
```

## - Output

