

Course Code: CSA4001

Course Name: Web Technology

Eureka Info Solutions has acquired online shopping cart project from a leading bookseller in Bangalore. They want to sell engineering textbooks online, so you are the team leader of the project and divide the modules based on user requirement, given requirement/module is designed by developers, and finally you integrate all the modules into one static website using HTML

The web site should be having following things:

1. HOME PAGE: The static home page must contain three frames.

- **Top frame:-** top of the page to place PU banner and links to homepage, login page, registration page and catalogue page.
- **Left frame:-** at least four links for navigation which will display the catalogue of Respective links.
- **Right frame:-** the pages to links in the left frame must be loaded here initially it Contains the description of the website.

2) LOGIN PAGE – to get username and password

3) CATOLOGUE PAGE: The catalogue page should contain the details of all the books available in the web site in a table.

4) REGISTRATION PAGE – to get user details

HTML Tags used:

`<html> <head> <title> <body> <h1> <h2> <h3> <a> <form> <input> <textarea> <select>
<option> <h4> <p> <center> <hr> <table> <tr> <th> <td>
 <button> <fieldset>
<frame><frameset>`

Solution:

top.html

```
<html>
<body bgcolor="YellowGreen ">
<center>
<marquee bgcolor="yellow" width="650" behavior="alternate">
<font face="Bookman Old Style" size="8" color="green"><b><i>PU
Online Book Store</i></b>
</font>
</marquee> <br>
```

```

<font face="Bookman Old Style" size="3" color="white"><b>Created
& Maintained by Presidency University</b></font>
</center>
<br>
<table width="100%" height="50%" cellspacing=10><tr align="center">
<td> <a href="Home.html" target="_parent">
<font face="Brush Script" size="6" color="navy">HOME </a> </td>
<td> <a href="login.html" target="rightframe">
<font face="Brush Script" size="6" color="navy">LOGIN</a> </td>
<td> <a href="registration.html" target="rightframe">
<font face="Brush Script" size="6" color="navy">REGISTER </a> </td>
<td> <a href="catalogue.html" target="leftframe">
<font face="Brush Script" size="6" color="navy">CATALOGUE</a> </td>
</tr>
</table>
</body>
</html>

```

left.html

```

<html>
<body align="center" bgcolor="bisque"> <br>
<br><br>
</body>
</html>

```

right.html

```

<html>
<body bgcolor="orange">
<center>
<br>
<font face="Bookman Old Style" size="5" color="blue">
<h1><b>Welcome to the Online Book Store!!!</b></font><br />
<font face="Bookman Old Style" size="5" color="red">
<h2><b> "A Huge Collection Of Engineering E-Books"</b> </h2> </font>

```

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

home.html

```
<frameset rows="30%,*">
<frame src="top.html" name="topframe">
<frameset cols="15%,*">
<frame src="left.html" name="leftframe">
<frame src="right.html" noresize name="rightframe" >
</frameset>
```

login.html:

```
<html>
<body bg color="pink">
<basefont face="Cambria" size="4"> <br>
<center>
<font face="Bookman Old Style" size="7" color="purple">
<b>Enter Login Details:</b>
</font>
</center>
<form name="f1" method="post" action="right.html">
<table align="center" width="100" height="150" cellspacing="15">
<tr><td><b>Login ID:</b></td>
<td><input type="text" name="t1"></td>
</tr>
<tr>
<td><b>Password:</b></td>
<td><input type="password" name="t2"></td>
</tr>
<tr align="center">
<td><input type="submit" name="b1" value="Submit"></td>
<td><input type="reset" name="b2" value="Reset"></td>
</tr>
```

```

        </table> </form> </basefont> </body>
</html> Registration.html

<html>
<head><title>Registration Form</title></head>
<body bgcolor="#E4F0F8">
<center><font color="blue" size="6" face="arial">Registration Form
</font> </center><br />
<form action="right.html">
First Name(Minimum 6 characters)<font color="red">*</font>
<input type='text' id='firstname' /><br /><br />
Last Name<font color="red"><font color="red">*</font> </font>
<input type='text' id='lastname' /><br /><br />
/> EmailAddress<font color="red">*</font>
<input type='text' id='email' /><br />
<font color="red">(one e-mail id only):</font>
<font color="redblue">e.g. smith@hotmail.com</font><br /><br />
Password(minimum 6 characters)<font color="red">*</font>
<input type='password' id='pass'><br /><br />
Address<font color="red">*</font>
<textarea rows="2" cols="20" id='addr' /></textarea> <br /> <br />
Mobile No<font color="red">*</font>
<input type='text' id='mobileno' /><br />
Gender: <input type='radio' name='gender'>male
<input type='radio' name='gender'>female<br /><br />
<input type='Submit' value='submit' />
<input type='Reset' value='reset' />
</form> </body> </html>

```

catalogue.html

```
<html>
```

```
<body align="center" bgcolor="bisque"> <br>
<a href="cse.html" target="rightframe"><font size="6">CSE</font> </a>
<br><br>
<a href="ece.html" target="rightframe"><font size="6">ECE</font></a>
<br><br>
<a href="it1.html" target="rightframe"><font size="6">IT</font></a>
<br><br>
<a href="eee.html" target="rightframe"><font size="6">EEE</font></a>
<br><br>
<a href="mech.html" target="rightframe"><font size="6">MECH</font></a>
<br>
</body>
</html>
```

cse.html

```
<html>
<body bgcolor="Plum">
<h1><font color="blue">COMPUTER SCIENCE ENGINEERING </font></h1>
<h2>
<ul type="square">
<li><a href="DataStructures.html"/>Data Structures using Python</a>
</li>
<li>Web Technologies</li> <li>Linux Programming</li>
<li>Artificial Intelligence</li>
</ul>
</h2>
</body>
</html>
```

DataStructures.html

```
<html>
```

```

<body bgcolor="pink">
<form action="order.html">
<table border="1" width="100%">
<tr> <th>  </th>
<th> Book: Data Structures using Python <br> Author: Vasudevan Shriram K
<br> Publication:Oxford Oxford Press</th> <th>531 </th>
<th> <input type="submit" value="Add to cart"/></th> </tr>
<tr>
<th> </th>
<th> Book: Data Structures And Algorithms In Python <br> Author:Michael
T. Goodrich, Roberto Tamassia <br> Publication: Wiley India</th>
<th> 898 </th>
<th> <input type="submit" value="Add to cart"/></th> </tr>
</table>
</form>
</body>
</html>

```

order.html

```

<html>
<head><title>order conformation</title></head>
<body bgcolor="cyan">
<center>
<pre><strong>
<b>Your order Is Conformed
</strong></pre>
<h2><b>THANK YOU...Visit Again</h2>
</center>
</body></html>

```

ece.html

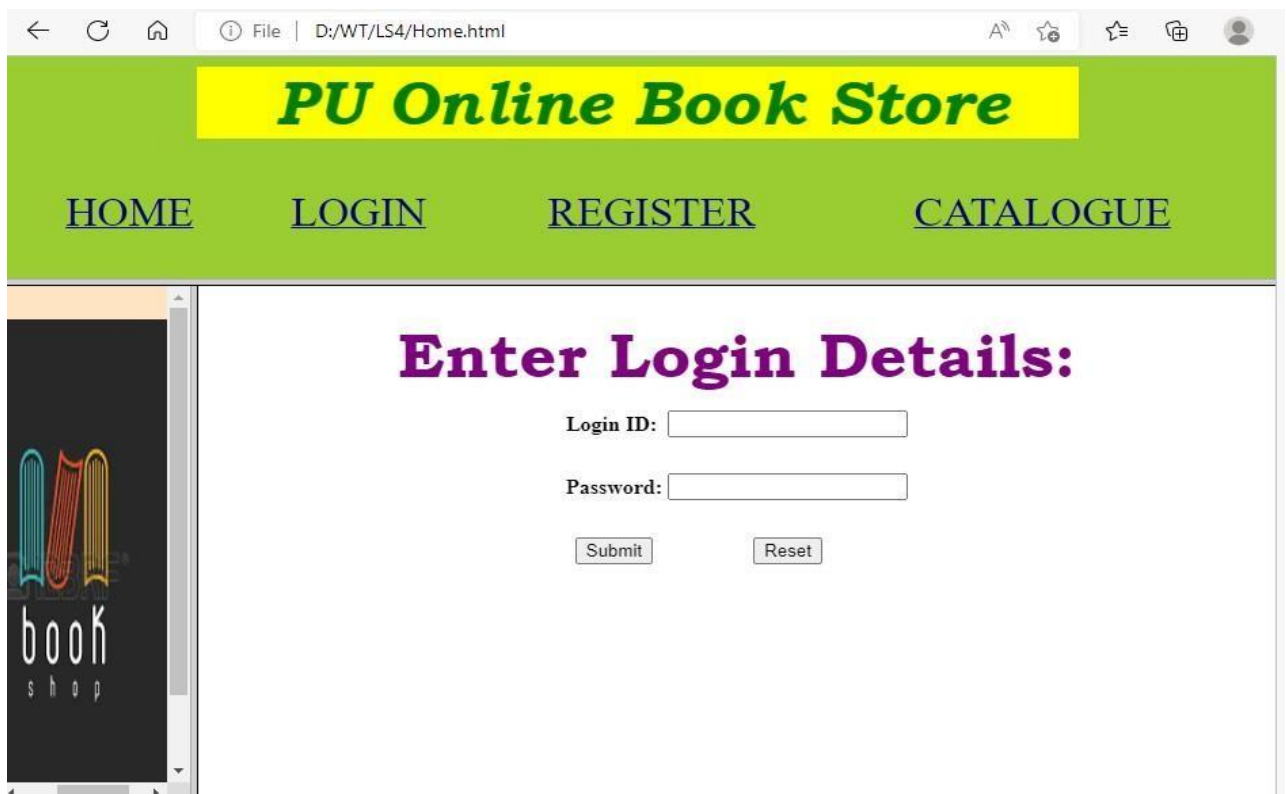
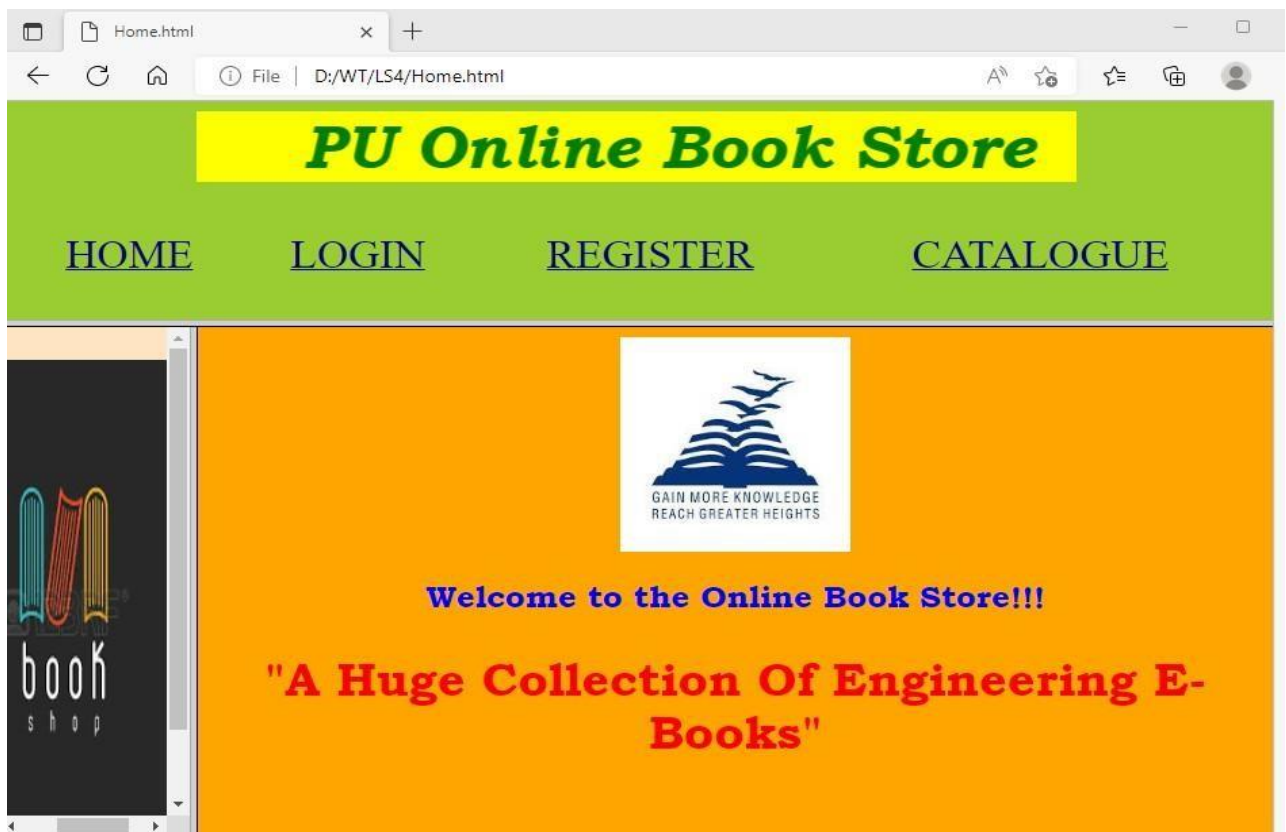
```

<html>

```

```
<body bgcolor="Plum">
<h1><font color="blue">Electronics and Communication Engineering</font>
</h1>
<h2>
<ul>
<li>Digital Circuits</li> <li>Signals and Systems</li> <li>Digital
Communication</li>
</ul>
</h2>
</body>
</html>
```


Output:



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PU Online Book Store

[HOME](#) [LOGIN](#) [REGISTER](#) [CATALOGUE](#)



Registration Form

First Name(Minimum 6 characters)*

Last Name*

EmailAddress*

e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*

PU Online Book Store

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[CSE](#)

[ECE](#)

[IT](#)

[EEE](#)

[MECH](#)

Registration Form

First Name(Minimum 6 characters)*

Last Name*

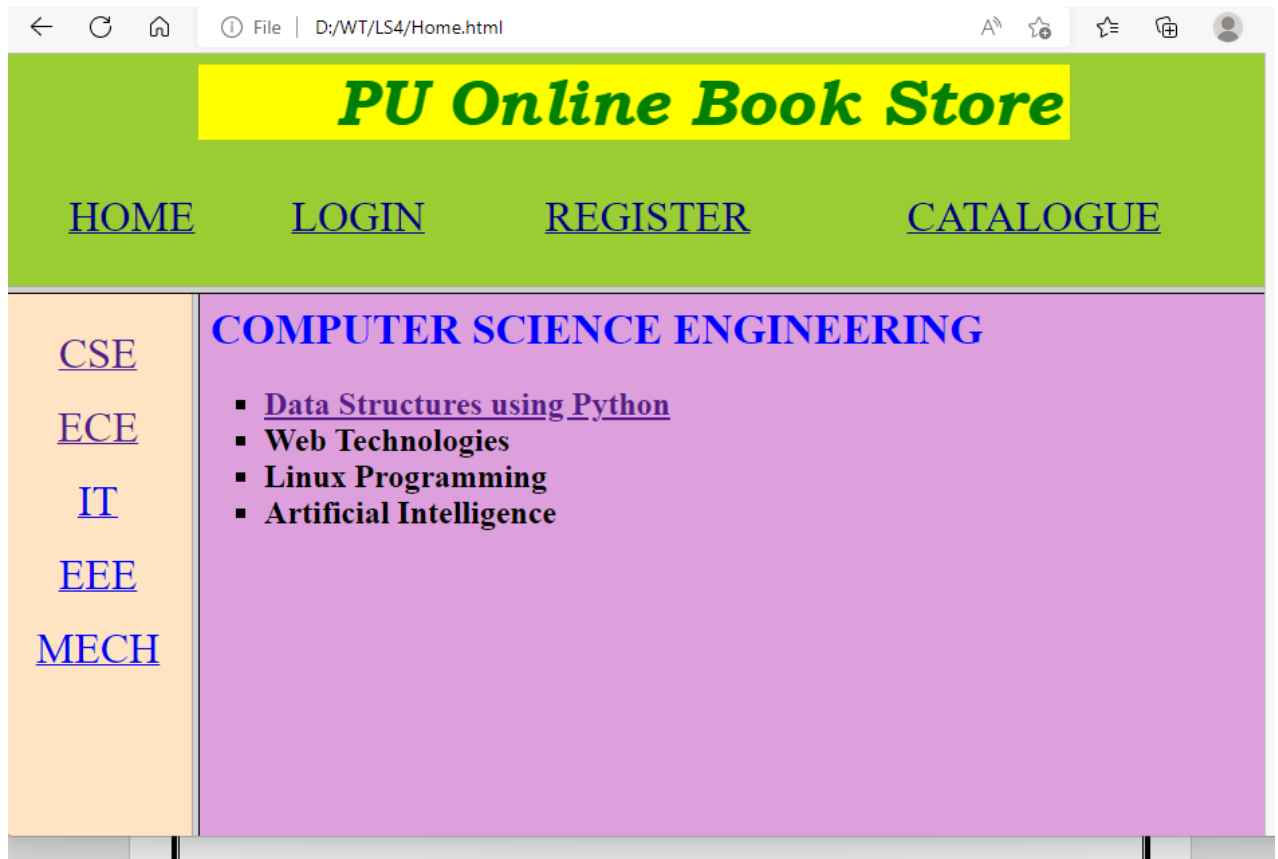
EmailAddress*

e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*


Mobile No*



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Registration Form

First Name(Minimum 6 characters)*

Last Name*

EmailAddress*

e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*

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Registration Form

First Name(Minimum 6 characters)*

Last Name*

EmailAddress*

e.g. smith@hotmail.com

Password(minimum 6 characters)*

Address*

Mobile No*

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[CSE](#)
[ECE](#)
[IT](#)
[EEE](#)
[MECH](#)

	Book: Data Structures using Python Author: Vasudevan Shriram K Publication: Oxford Oxford Press	531	<input type="button" value="Add to cart"/>
	Book: Data Structures And Algorithms In Python Author: Michael T. Goodrich, Roberto Tamassia Publication: Wiley India	898	<input type="button" value="Add to cart"/>

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Your order Is Conformed

THANK YOU...Visit Again

Experiment No. 2: Demonstration of HTML tags

Level 1: Design a HTML registration form for the course registration in a university

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Course Registration Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
    }
    .container {
      max-width: 500px;
      margin: 20px auto;
      background-color: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    h1 {
      text-align: center;
    }
    form {
      margin-top: 20px;
    }
    label {
      display: block;
      margin-bottom: 5px;
    }
    input[type="text"],
    input[type="email"],
    select {
      width: 100%;
      padding: 8px;
      margin-bottom: 10px;
      border: 1px solid #ccc;
      border-radius: 4px;
      box-sizing: border-box;
    }
    input[type="submit"] {
      background-color: #4CAF50;
      color: white;
      padding: 10px 20px;
      border: none;
```

```
        border-radius: 4px;
        cursor: pointer;
    }
    input[type="submit"]:hover {
        background-color: #45a049;
    }
</style>
</head>
<body>

<div class="container">
    <h1>Course Registration Form</h1>
    <form>
        <label for="name">Full Name:</label>
        <input type="text" id="name" name="name" required>

        <label for="Dept">Department :</label>
        <input type="text" id="dept" name="dept" required>

        <label for="class">Class</label>
        <input type="text" id="class" name="class" required>

        <label for="Phno">Phone Number:</label>
        <input type="text" id="phno" name="phno" required>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>

        <label for="course">Select Course:</label>
        <select id="course" name="course" required>
            <option value="">-- Select Course --</option>
            <option value="CSE101">Introduction to Computer Science</option>
            <option value="MTH201">Calculus I</option>
            <option value="ENG301">English Composition</option>
            <!-- Add more courses as needed -->
        </select>

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

</body>
</html>
```

Course Registration Form

E:/mca3%20web%20lab/Lab%20Sheet2/level1.html

Course Registration Form

Full Name:

Department :

Class

Phone Number:

Email:

Select Course:

-- Select Course --

Register

Activate Windows
Go to Settings to activate Windows.

Type here to search

31°C Partly cloudy

07:19 PM
05-03-2024

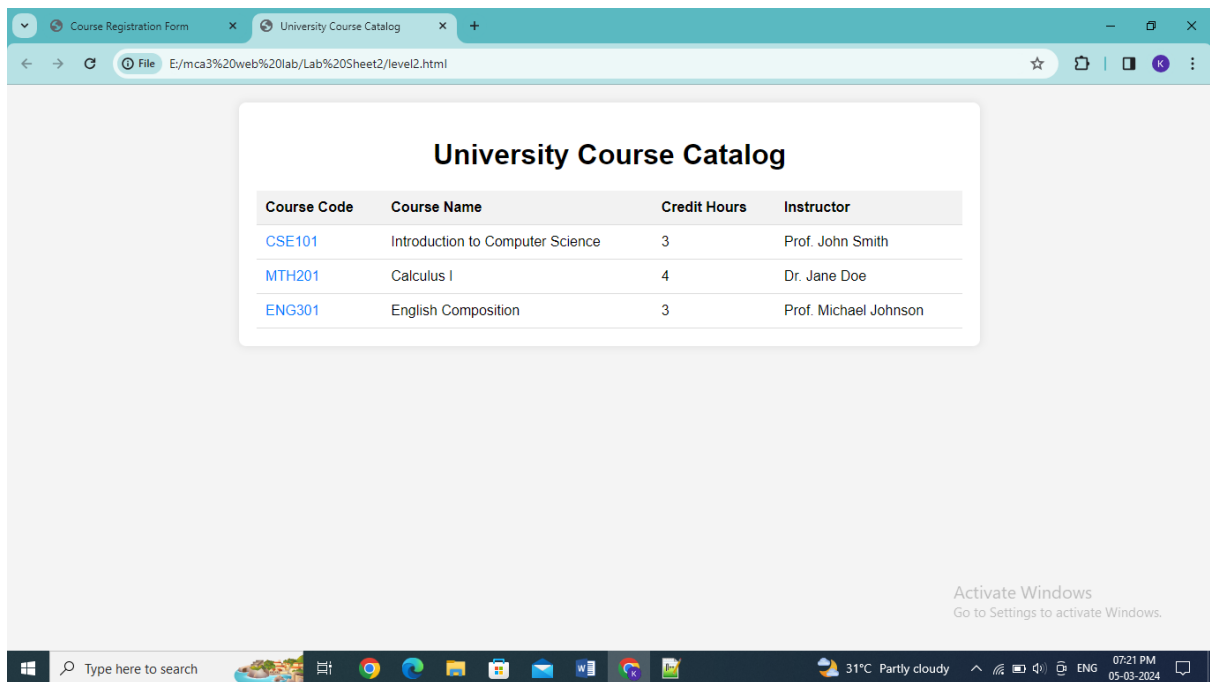
Level 2: Demonstrate the various courses of the university and link those courses using table and link tag.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>University Course Catalog</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
    }
    .container {
      max-width: 800px;
      margin: 20px auto;
      background-color: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    h1 {
      text-align: center;
    }
    table {
      width: 100%;
      border-collapse: collapse;
      margin-top: 20px;
    }
    th, td {
      padding: 10px;
      text-align: left;
      border-bottom: 1px solid #ddd;
    }
    th {
      background-color: #f2f2f2;
    }
    a {
      text-decoration: none;
      color: #007bff;
    }
    a:hover {
      text-decoration: underline;
    }
  </style>
</head>
<body>
```



```
<div class="container">
  <h1>University Course Catalog</h1>
  <table>
    <thead>
      <tr>
        <th>Course Code</th>
        <th>Course Name</th>
        <th>Credit Hours</th>
        <th>Instructor</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td><a href="course_details.html#CSE101">CSE101</a></td>
        <td>Introduction to Computer Science</td>
        <td>3</td>
        <td>Prof. John Smith</td>
      </tr>
      <tr>
        <td><a href="course_details.html#MTH201">MTH201</a></td>
        <td>Calculus I</td>
        <td>4</td>
        <td>Dr. Jane Doe</td>
      </tr>
      <tr>
        <td><a href="course_details.html#ENG301">ENG301</a></td>
        <td>English Composition</td>
        <td>3</td>
        <td>Prof. Michael Johnson</td>
      </tr>
      <!-- Add more courses as needed -->
    </tbody>
  </table>
</div>

</body>
</html>
```



Experiment No. 3: Application of CSS in web designing

Level 1: Design a document using HTML and CSS to create a catalog of items for online shopping.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Online Shopping Catalog</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      margin: 0;

      padding: 20px;

      background-color: #f2f2f2;

    }

    .container {

      max-width: 800px;

      margin: auto;

      background-color: #fff;

      border-radius: 10px;

      padding: 20px;

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

    }

    table {

      width: 100%;

      border-collapse: collapse;

      margin-bottom: 20px;

    }

    th, td {

      padding: 10px;

      text-align: left;

      vertical-align: middle;
```

```
}  
th {  
    background-color: #f2f2f2;  
    font-weight: bold;  
}  
tr:nth-child(even) {  
    background-color: #f9f9f9;  
}  
.image-column {  
    width: 20%;  
}  
.price-column {  
    width: 15%;  
}  
.button-column {  
    width: 15%;  
}  
.button {  
    background-color: #4CAF50;  
    color: white;  
    padding: 8px 12px;  
    border: none;  
    cursor: pointer;  
    border-radius: 5px;  
}  
.button:hover {  
    background-color: #45a049;  
}  
form {  
    margin-top: 20px;  
}  
label {  
    display: block;  
    margin-bottom: 5px;
```

```
}  
input[type="text"],  
input[type="email"],  
textarea {  
    width: 100%;  
    padding: 8px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    margin-bottom: 10px;  
    box-sizing: border-box;  
}  
input[type="submit"] {  
    background-color: #008cba;  
    color: white;  
    padding: 10px 20px;  
    border: none;  
    cursor: pointer;  
    border-radius: 5px;  
    transition: background-color 0.3s;  
}  
input[type="submit"]:hover {  
    background-color: #005f6b;  
}  
.add-to-cart-btn:hover {  
    background-color: #45a049;  
}  
.cart-message {  
    background-color: #4CAF50;  
    color: white;  
    padding: 10px;  
    margin-top: 20px;  
    border-radius: 5px;  
    display: none;  
}
```

```
.add-to-cart-btn {
  background-color: #4CAF50;
  color: white;
  border: none;
  padding: 8px 16px;
  border-radius: 5px;
  cursor: pointer;
  transition: background-color 0.3s ease;
}
</style>
</head>
<body>

<div class="container">
  <table>
    <thead>
      <tr>
        <th>Image</th>
        <th>Title</th>
        <th>Description</th>
        <th>Price</th>
        <th>Action</th>
      </tr>
    </thead>
    <tbody>
      <tr class="item">
        <td></td>
        <td>Item 1</td>
        <td>Description of item 1.</td>
        <td>$10.99</td>
        <td><button class="add-to-cart-btn">Add to Cart</button></td>
      </tr>
      <tr class="item">
```

```
<td></td>
<td>Item 2</td>
<td>Description of item 2.</td>
<td>$19.99</td>
<td><button class="add-to-cart-btn">Add to Cart</button></td>
</tr>
<!-- Add more items as needed -->
</tbody>
</table>
```

```
<div class="cart-message" id="cartMessage">
  Item added to cart successfully!
</div>
```

```
<h2>Order Form</h2>
<form id="orderForm">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required><br><br>
  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required><br><br>
  <label for="address">Address:</label>
  <textarea id="address" name="address" required></textarea><br><br>
  <button class="add-to-cart-btn" type="submit">Place Order</button>
</form>
</div>
```

```
<script>
const addToCartButtons = document.querySelectorAll('.add-to-cart-btn');
const cartMessage = document.getElementById('cartMessage');

addToCartButtons.forEach(button => {
  button.addEventListener('click', () => {
    cartMessage.style.display = 'block';
    setTimeout(() => {
```

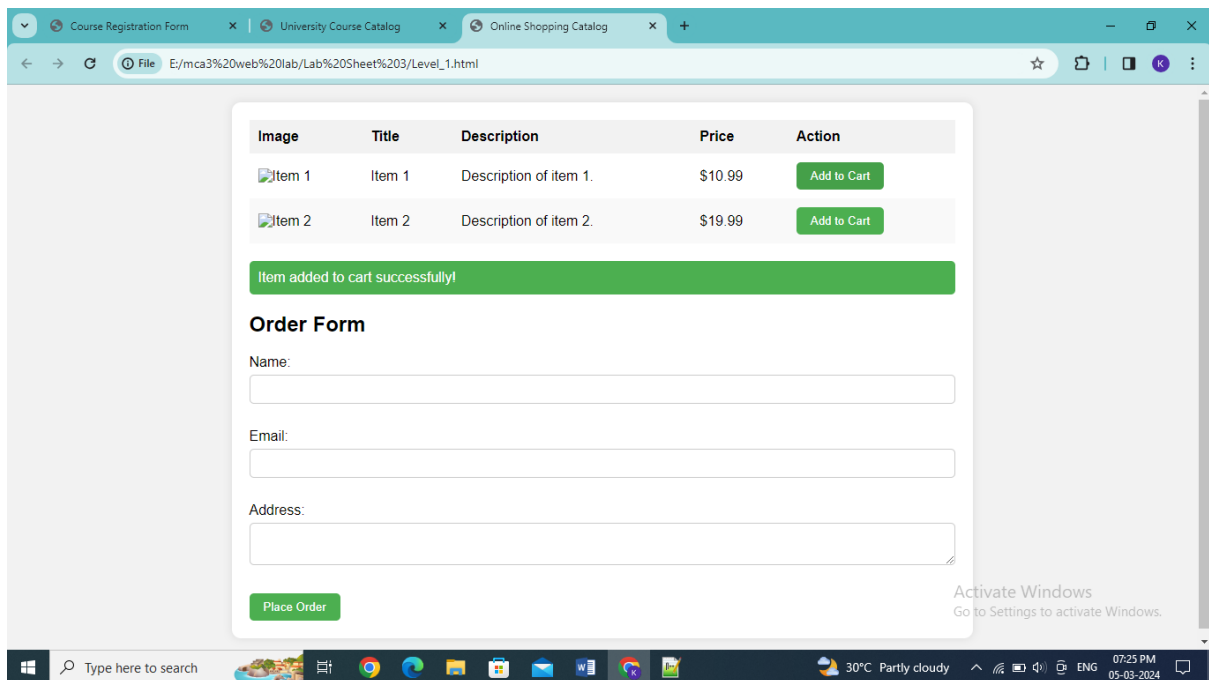
```

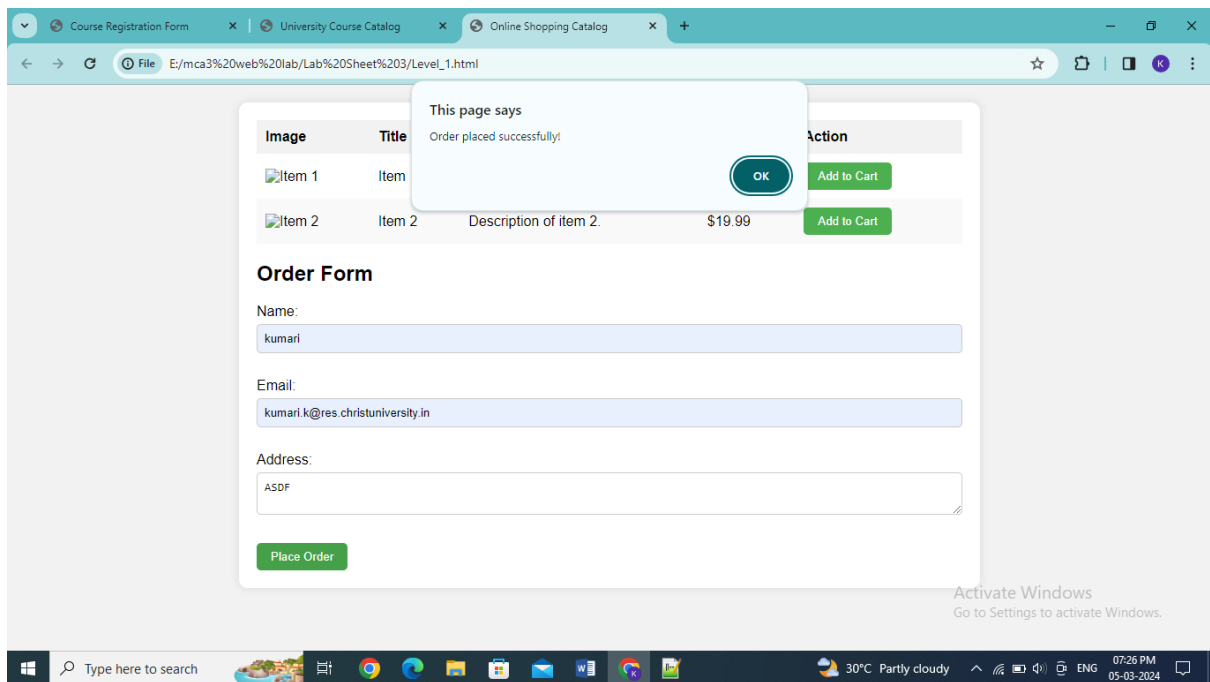
        cartMessage.style.display = 'none';
    }, 2000);
});
});

const orderForm = document.getElementById('orderForm');
orderForm.addEventListener('submit', function(event) {
    event.preventDefault();
    alert('Order placed successfully!');
    this.reset();
});
</script>

</body>
</html>

```





Experiment No. 3: Application of CSS in web designing

Level 2: Create a HTML document for employees' information and display the same using a cascaded style sheet.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Employee Information</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      background-color: #f4f4f4;

      margin: 0;

      padding: 0;

    }

    .container {

      max-width: 600px;

      margin: 20px auto;

      background-color: #fff;

      padding: 20px;

      border-radius: 8px;

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

    }

    h1 {

      text-align: center;

    }

    table {

      width: 100%;

      border-collapse: collapse;

      margin-top: 20px;
```

```
}  
th, td {  
    padding: 8px;  
    text-align: left;  
    border-bottom: 1px solid #ddd;  
}  
th {  
    background-color: #f2f2f2;  
}  
input[type="text"] {  
    width: 100%;  
    padding: 8px;  
    margin-bottom: 10px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    box-sizing: border-box;  
}  
input[type="submit"] {  
    background-color: #4CAF50;  
    color: white;  
    padding: 10px 20px;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}  
input[type="submit"]:hover {  
    background-color: #45a049;  
}  
</style>  
</head>  
<body>
```

```
<div class="container">

  <h1>Employee Information</h1>

  <form id="employeeForm">

    <input type="text" id="name" placeholder="Enter Name" required><br>

    <input type="text" id="position" placeholder="Enter Position" required><br>

    <input type="text" id="email" placeholder="Enter Email" required><br>

    <input type="submit" value="Add Employee">

  </form>


  <table id="employeeTable">

    <thead>

      <tr>

        <th>Name</th>

        <th>Position</th>

        <th>Email</th>

      </tr>

    </thead>

    <tbody>

    </tbody>

  </table>

</div>


<script>

document.getElementById('employeeForm').addEventListener('submit', function(event) {

  event.preventDefault();

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

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

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


  var tableBody = document.querySelector('#employeeTable tbody');

  var newRow = tableBody.insertRow();

  newRow.innerHTML = `<td>${name}</td><td>${position}</td><td>${email}</td>`;

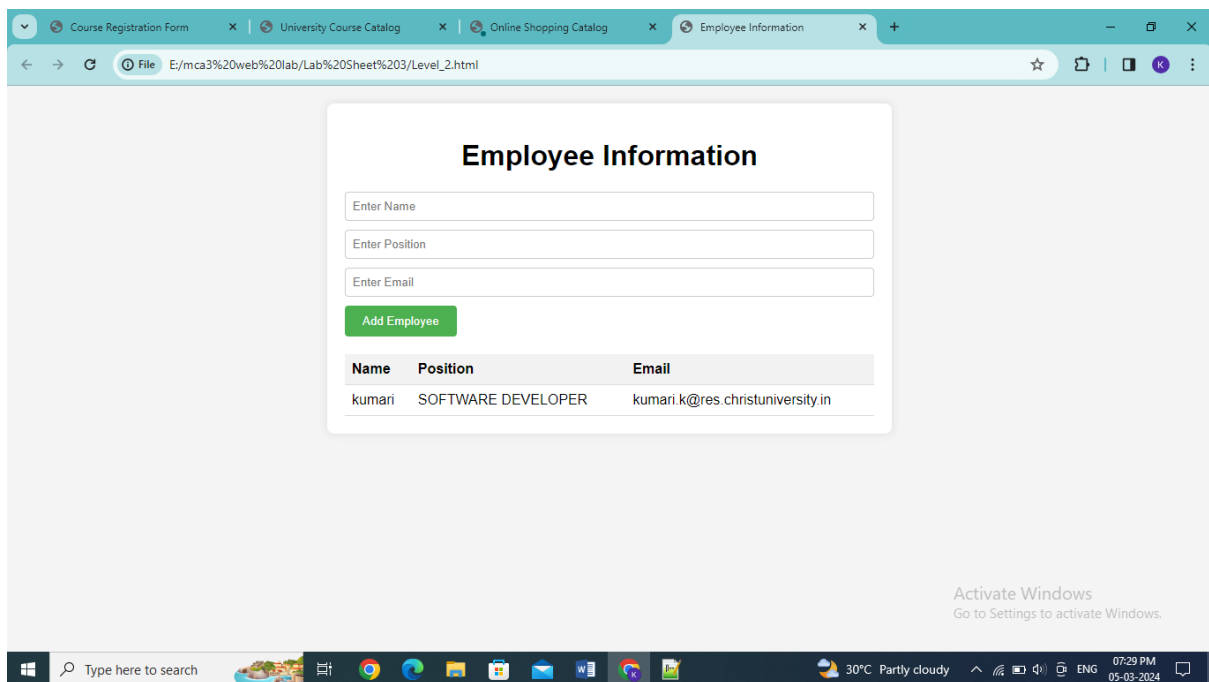
});

</script>
```

```
document.getElementById('name').value = "";
document.getElementById('position').value = "";
document.getElementById('email').value = "";

});
</script>

</body>
</html>
```



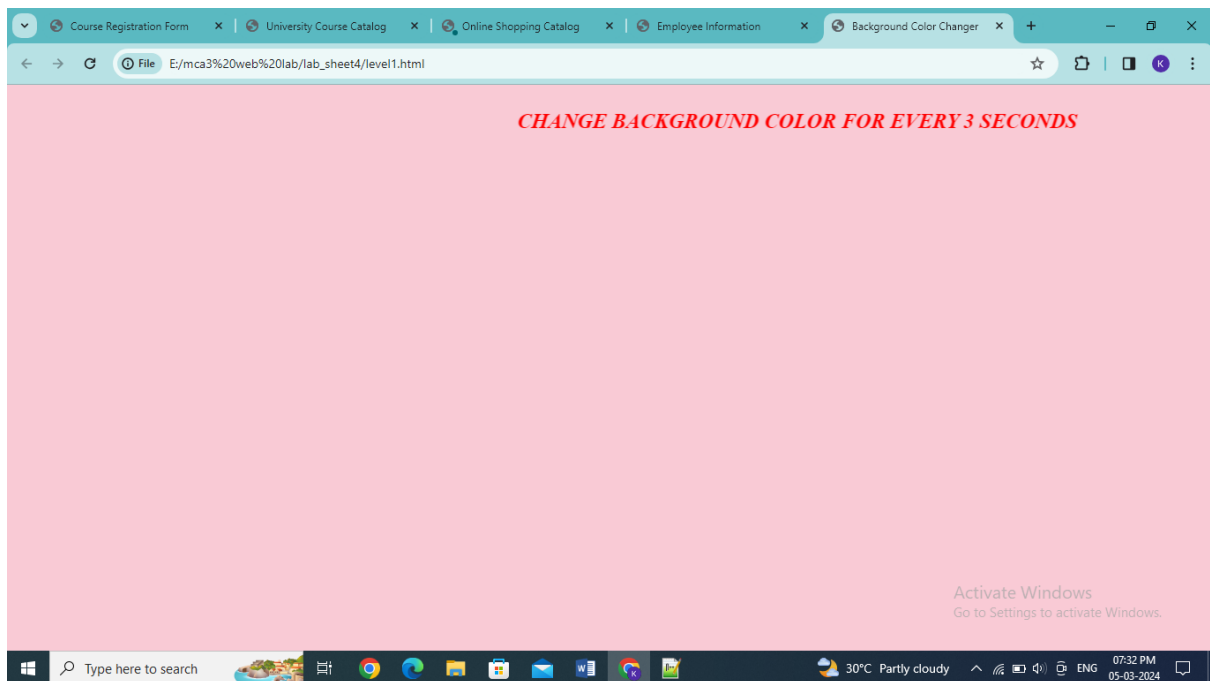
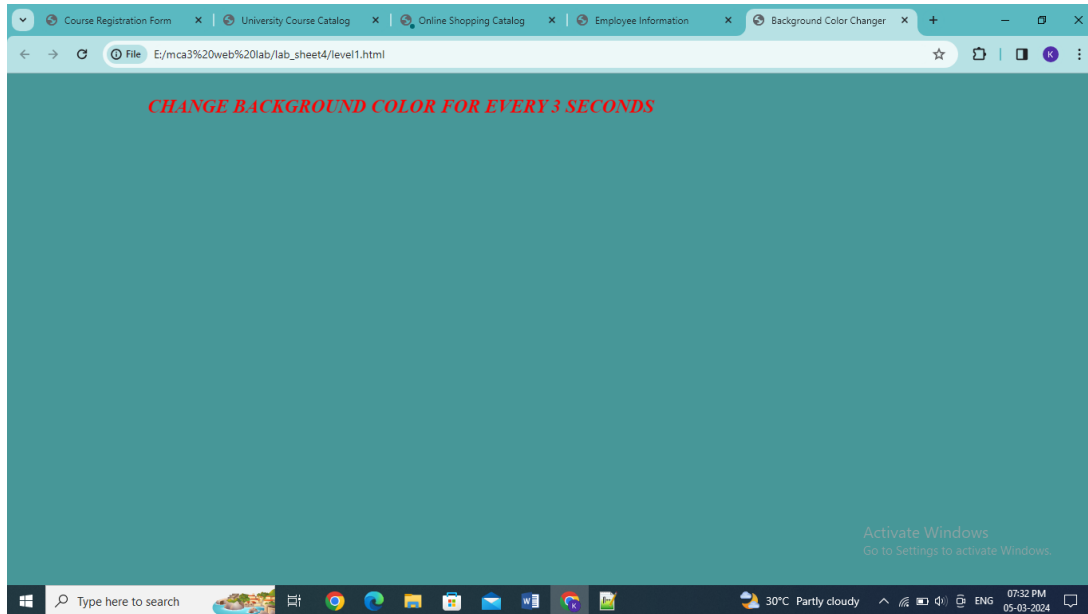
Experiment No 4: Demonstration of JavaScript

Level 1: Write a JavaScript code to change the background color at frequent intervals

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Background Color Changer</title>

</head>
<body>
<marquee><h2><font color="red"><i>CHANGE BACKGROUND COLOR FOR EVERY 3
SECONDS</i></font></h2></marquee>
<script>
    function changeBackgroundColor() {
        // Generate random RGB values
        var r = Math.floor(Math.random() * 256);
        var g = Math.floor(Math.random() * 256);
        var b = Math.floor(Math.random() * 256);
        // Construct RGB color string
        var color = "rgb(" + r + ", " + g + ", " + b + ")";
        // Apply the new color to the body background
        document.body.style.backgroundColor = color;
    }

    // Call the function every 3 seconds (3000 milliseconds)
    setInterval(changeBackgroundColor, 3000);
</script>
</body>
</html>
```



Level 2: Design a document to show the blinking Text using JQuery ☐

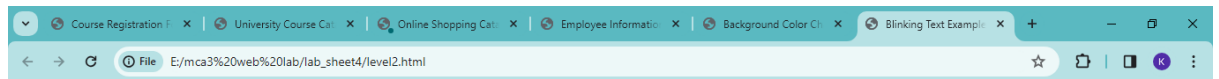
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Blinking Text Example</title>
<style>
    .blinking {
        animation: blinker 1s linear infinite;
    }
    @keyframes blinker {
        50% {
            opacity: 0;
        }
    }
</style>
</head>
<body>

<h1 id="blinkingText">Hello, I'm Blinking!</h1>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script>
    $(document).ready(function() {
        function blinkText() {
            $('#blinkingText').toggleClass('blinking');
        }
    });
</script>
```



```
    }  
    setInterval(blinkText, 1000); // Toggle every second (1000 milliseconds)  
  });  
</script>  
  
</body>  
</html>
```



Hello, I'm Blinking!

Activate Windows
Go to Settings to activate Windows.



Experiment No. 5: JavaScript in Webpage Validation

Level 1: Write a JavaScript program for Name, Email, Password, Mobile Number validation

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Form Validation</title>
<style>
    /* Basic styling for the form */
    body {
        font-family: Arial, sans-serif;
        background-color: #f4f4f4;
    }
    form {
        background: #fff;
        max-width: 400px;
        margin: 20px auto;
        padding: 20px;
        border-radius: 5px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    input[type="text"],
    input[type="email"],
    input[type="password"],
    input[type="tel"],
    button {
        width: 100%;
        padding: 10px;
        margin: 5px 0;
        border: 1px solid #ccc;
        border-radius: 3px;
        box-sizing: border-box;
    }
    button {
        background-color: #4caf50;
```

```

    color: white;
    border: none;
    cursor: pointer;
}
button:hover {
    background-color: #45a049;
}
.error {
    color: red;
}

</style>
</head>
<body>
<center><h2>Registration Form</h2></center>
<form id="registrationForm" onsubmit="return validateForm()">
    <div class="form-group">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name">
        <div id="nameError" class="error-message"></div>
    </div>
    <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" id="email" name="email">
        <div id="emailError" class="error-message"></div>
    </div>
    <div class="form-group">
        <label for="password">Password:</label>
        <input type="password" id="password" name="password">
        <div id="passwordError" class="error-message"></div>
    </div>
    <div class="form-group">
        <label for="mobile">Mobile Number:</label>
        <input type="tel" id="mobile" name="mobile">
        <div id="mobileError" class="error-message"></div>
    </div>
    <button type="submit">Submit</button>
</form>

<script>
function validateForm() {
    var name = document.getElementById("name").value;
    var email = document.getElementById("email").value;
    var password = document.getElementById("password").value;
    var mobile = document.getElementById("mobile").value;

    var nameError = document.getElementById("nameError");
    var emailError = document.getElementById("emailError");
    var passwordError = document.getElementById("passwordError");
    var mobileError = document.getElementById("mobileError");

```

```

var isValid = true;

// Name validation
if (name.trim() === "") {
    nameError.innerHTML = "Name is required";
    isValid = false;
} else {
    nameError.innerHTML = "";
}

// Email validation
if (email.trim() === "") {
    emailError.innerHTML = "Email is required";
    isValid = false;
} else if (!isValidEmail(email)) {
    emailError.innerHTML = "Invalid email format";
    isValid = false;
} else {
    emailError.innerHTML = "";
}

// Password validation
if (password.trim() === "") {
    passwordError.innerHTML = "Password is required";
    isValid = false;
} else if (password.length < 8) {
    passwordError.innerHTML = "Password must be at least 8 characters long";
    isValid = false;
} else {
    passwordError.innerHTML = "";
}

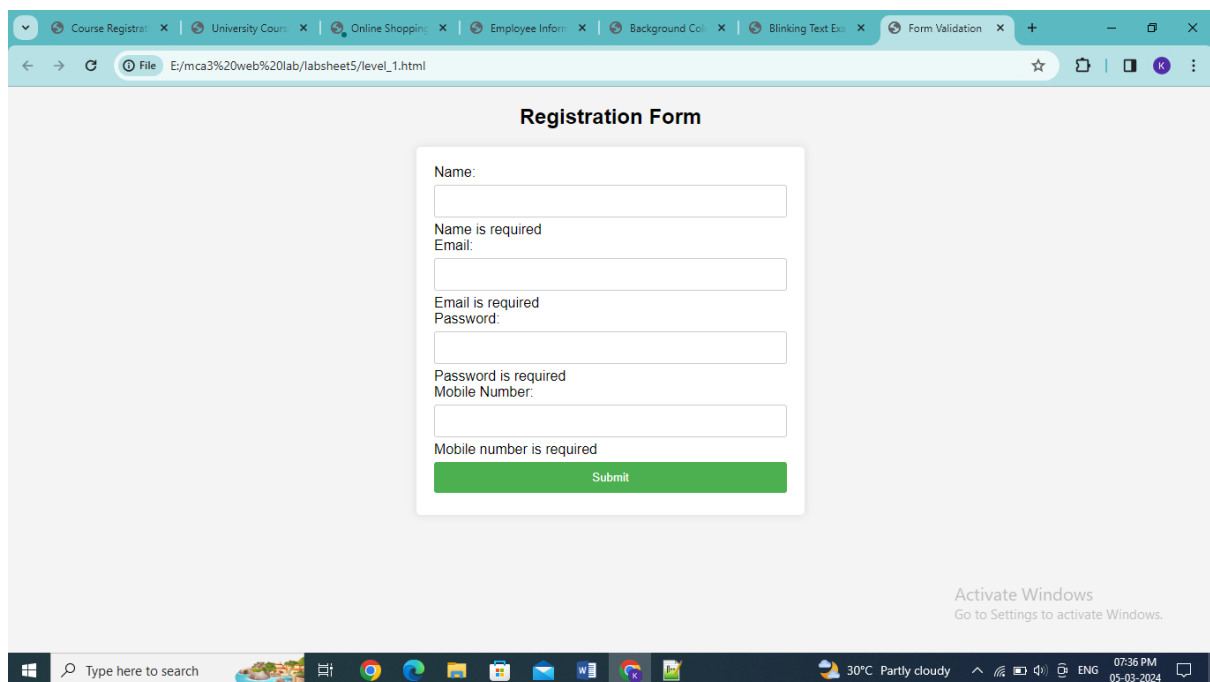
// Mobile number validation
if (mobile.trim() === "") {
    mobileError.innerHTML = "Mobile number is required";
    isValid = false;
} else if (!isValidMobile(mobile)) {
    mobileError.innerHTML = "Invalid mobile number format";
    isValid = false;
} else {
    mobileError.innerHTML = "";
}

return isValid;
}

function isValidEmail(email) {
    var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    return emailRegex.test(email);
}

```

```
}  
  
function isValidMobile(mobile) {  
    var mobileRegex = /^[0-9]{10}$/;  
    return mobileRegex.test(mobile);  
}  
</script>  
</body>  
</html>
```



Level 2: Write a JavaScript program to give access to some web pages only by presidency University students.

```
<html >
<head>
<title>Restricted Access</title>
<style>
body {
color:white;
background-image:radial-gradient(hotpink,cyan);
font-family: Arial, sans-serif;
text-align: center;
margin: 100px;
}
button{
padding:10px;
background-color:yellow;
border:0px;
color:black;
}
a{
color:white;
}
</style>
</head>
<body>
<h1><i>Welcome to the Restricted Page</i></h1>
<hr><br><br>
<form id="loginForm">
Username:<input type="text" id="username" required><br><br>
Password:<input type="password" id="password" required><br><br>
<button type="button" onclick="authenticate()">Login</button>
</form>
<div id="content" style="display: none;">
<a href="https://presidencyuniversity.in/">Home</a> <br><br>
<a href="https://presidencyuniversity.in/library/">Library</a><br><br>
<a
href="https://epay.federalbank.co.in/easypayments/MakeEcollnPayment.aspx">Payment</a>
<br>
```

```
<br>
<a href="https://presidencyuniversity.in/academic-programmes/">courses</a>
</div>
<script>
function authenticate() {
var username = document.getElementById('username').value;
var password = document.getElementById('password').value;
if (username === 'user' && password === 'pass') {
document.getElementById('loginForm').style.display = 'none';
document.getElementById('content').style.display = 'block';
} else {
alert('Invalid credentials. Please try again.');
```

