

LAB Exercises

Exercise – 1

Problem Statement: Create the following static web pages for an online book store web site:

1) Homepage:

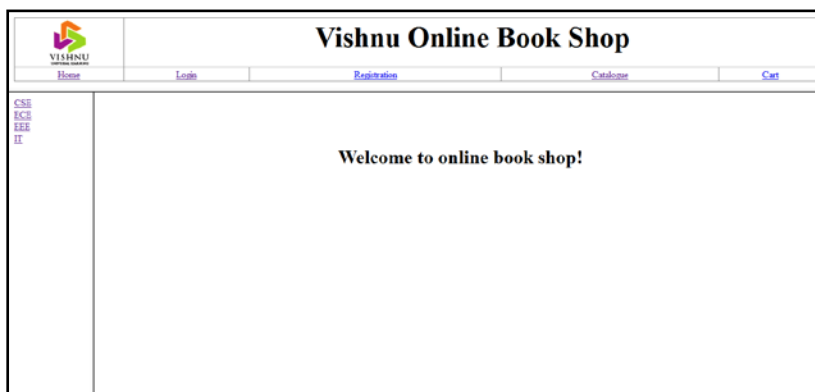
The static homepage should contain three frames.

Top frame: Should contain logo and college name along with links to Homepage, Login page, Registration page, Catalogue page and Cart page.

Left frame: Atleast four links of branches, which will display the catalogue of respective branch.

Right frame: The pages to the links in the top frame and left frame must be displayed here. Initially, this page contains description of the web site.

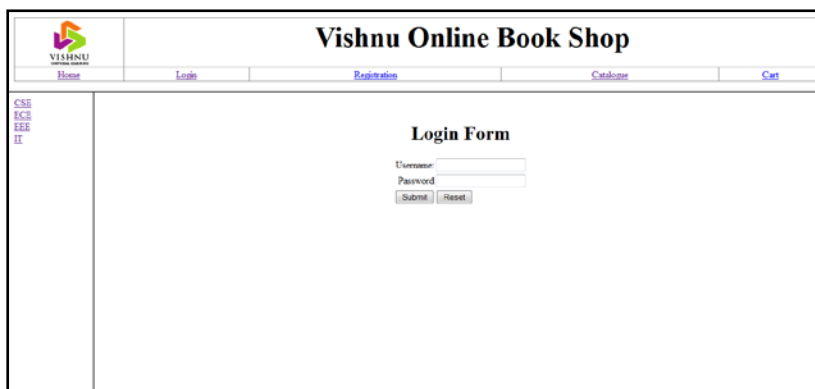
Sample output:



2) Login page:

The login page contains a username field, password field, a submit button and a reset button.

Sample output:







3) Catalogue page:

The catalogue page should contain the details of the books arranged in a tabular format. The details should contain the following:

1. Cover image of the book
2. Author name(s)
3. Publisher
4. Price
5. Add to cart button

Sample output:

		<h1>Vishnu Online Book Shop</h1>		
Home	Login	Registration	Catalogue	Cart
CSE ECE EEE IT	<h2>Books Catalogue</h2>			
	Cover Image	Author Details	Price	Add to Cart
		Book: C Programming Authors: B. W. Kernighan, Dennis M. Ritchie	Rs.120	ADD TO CART
		Book: Data Structures Author: S. Lipschutz	Rs.150	ADD TO CART
	Book: Java 2 Complete Reference Author: Herbert Schildt	Rs. 200	ADD TO CART	

Solution:

index.html

```
<html>
  <head>
    <title>Online Book Shop</title>
  </head>
  <frameset rows="20%,*">
    <frame src="top.html" scrolling="no" noresize="noresize">
    <frameset cols="10%,*">
      <frame src="left.html" scrolling="no" noresize="noresize">
      <frame src="right.html" noresize="noresize" name="rightframe">
    </frameset>
  </frameset>
</html>
```

left.html

```
<html>
  <head>
    <title>Department Links</title>
  </head>
  <body>
    <a href="cse.html" target="rightframe">CSE</a><br/>
    <a href="ece.html" target="rightframe">ECE</a><br/>
    <a href="eee.html" target="rightframe">EEE</a><br/>
    <a href="it.html" target="rightframe">IT</a>
  </body>
</frameset>
</html>
```

right.html

```
<html>
  <head>
    <title>Welcome Message</title>
  </head>
  <body>
    <br/><br/><br/>
    <h1 align="center">Welcome to online book shop!</h1>
  </body>
</frameset>
</html>
```

top.html

```
<html>
  <head>
    <title>Header</title>
  </head>
```

```

<body>
  <table border="1" width="100%" rules="all">
    <tr valign="bottom">
      <td align="center"></td>
      <td align="center" colspan="4"><h1><font size="10">Vishnu Online
Book Shop</font></h1></td>
    </tr>
    <tr align="center">
      <td><a href="index.html" target="_top">Home</a></td>
      <td><a href="login.html" target="rightframe">Login</a></td>
      <td><a href="reg.html" target="rightframe">Registration</a></td>
      <td><a href="cat.html" target="rightframe">Catalogue</a></td>
      <td><a href="cart.html" target="rightframe">Cart</a></td>
    </tr>
  </table>
</body>
</frameset>
</html>

```

login.html

```

<html>
  <head>
    <title>Login Form</title>
  </head>
  <body>
    <br/>
    <h1 align="center">Login Form</h1>
    <form action="" method="get">
      <table align="center" border="0">
        <tr>
          <td align="right">Username:</td>
          <td><input type="text" /></td>
        </tr>
        <tr>
          <td align="right">Password:</td>
          <td><input type="password" /></td>
        </tr>
        <tr>
          <td align="right"><input type="submit" value="Submit"/></td>
          <td><input type="reset" value="Reset"/></td>
        </tr>
      </table>
    </form>
  </body>
</html>

```

cat.html

```
<html>
  <head>
    <title>Catalogue</title>
  </head>
  <body>
    <h1 align="center">Books Catalogue</h1>
    <table width="100%" frame="box" rules="all" cellpadding="10">
      <thead>
        <tr>
          <th>Cover Image</th>
          <th>Author Details</th>
          <th>Price</th>
          <th>Add to Cart</th>
        </tr>
      </thead>
      <tfoot></tfoot>
      <tbody>
        <tr align="center">
          <td align="center" width="100px" />
          <td>Book: C Programming<br/>Authors: B. W. Kernighan,
            Dennis M. Ritchie</td>
          <td>Rs.120</td>
          <td align="center"></td>
        </tr>
        <tr align="center">
          <td align="center" width="100px" />
          <td>Book: Data Structures<br/>Author: S. Lipschutz</td>
          <td>Rs.150</td>
          <td align="center"></td>
        </tr>
        <tr align="center">
          <td align="center" width="100px" />
          <td>Book: Java 2 Complete Reference<br/>Author: Herbert
            Schildt</td>
          <td>Rs. 200</td>
          <td align="center"></td>
        </tr>
        <tr align="center">
          <td align="center" width="100px" />
          <td>Book: Operating System Concepts<br/>Authors: Galvin,
            Gagne</td>
          <td>Rs. 250</td>
          <td align="center"></td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

```

width="100px" /></td>
Network<br/>Author: B. A. Forouzan</td>
Rs. 200</td>
</td>
</tr>
<tr align="center">
width="100px" /></td>
Book: Digital Signal Processing<br/>Author: P. Ramesh
Babu</td>
Rs. 200</td>
</td>
</tr>
<tr align="center">
width="100px" /></td>
Book: Electronic Devices and Circuits<br/>Author: S.
Salivahanan</td>
Rs. 150</td>
</td>
</tr>
<tr align="center">
width="100px" /></td>
Book: Electric Machines<br/>Authors: D. P. Kothari, I. J.
Nagrath</td>
Rs. 150</td>
</td>
</tr>
</tbody>
</table>
</body>
</html>

```

cse.html

```

<html>
  <head>
    <title>Catalogue</title>
  </head>
  <body>
    <h1 align="center">CSE Books Catalogue</h1>
    <table width="100%" frame="box" rules="all" cellpadding="10">
      <thead>
        <tr>
          <th>Cover Image</th>
          <th>Author Details</th>
          <th>Price</th>
          <th>Add to Cart</th>

```

```

        </tr>
    </thead>
</tfoot></tfoot>
<tbody>
    <tr align="center">
        <td></td>
        <td>Book: C Programming<br/>Authors: B. W. Kernighan,
Dennis M. Ritchie</td>
        <td>Rs.120</td>
        <td></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>Book: Data Structures<br/>Author: S. Lipschutz</td>
        <td>Rs.150</td>
        <td></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>Book: Java 2 Complete Reference<br/>Author: Herbert
Schildt</td>
        <td>Rs. 200</td>
        <td></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>Book: Operating System Concepts<br/>Authors: Galvin,
Gagne</td>
        <td>Rs. 250</td>
        <td></td>
    </tr>
</tbody>
</table>
</body>
</html>

```

ece.html

```

<html>
    <head>
        <title>Catalogue</title>
    </head>
    <body>
        <h1 align="center">ECE Books Catalogue</h1>
        <table width="100%" frame="box" rules="all" cellpadding="10">
            <thead>
                <tr>

```

```

                <th>Cover Image</th>
                <th>Author Details</th>
                <th>Price</th>
                <th>Add to Cart</th>
            </tr>
        </thead>
    </tfoot>
</tbody>
    <tr align="center">
        <td></td>
        <td>Book: Data Communications and
Networking<br/>Author: B. A. Forouzan</td>
        <td>Rs. 200</td>
        <td></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>Book: Digital Signal Processing<br/>Author: P. Ramesh
Babu</td>
        <td>Rs. 200</td>
        <td></td>
    </tr>
</tbody>
</table>
</body>
</html>

```

eee.html

```

<html>
    <head>
        <title>Catalogue</title>
    </head>
    <body>
        <h1 align="center">EEE Books Catalogue</h1>
        <table width="100%" frame="box" rules="all" cellpadding="10">
            <thead>
                <tr>
                    <th>Cover Image</th>
                    <th>Author Details</th>
                    <th>Price</th>
                    <th>Add to Cart</th>
                </tr>
            </thead>
            <tfoot></tfoot>
            <tbody>
                <tr align="center">
                    <td></td>

```



```

Salivahanan</td>
        <td>Book: Electronic Devices and Circuits<br/>Author: S.
        <td>Rs. 150</td>
        <td></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>Book: Electric Machines<br/>Authors: D. P. Kothari, I. J.
Nagrath</td>
        <td>Rs. 150</td>
        <td></td>
    </tr>
</tbody>
</table>
</body>
</html>

```

it.html

```

<html>
  <head>
    <title>Catalogue</title>
  </head>
  <body>
    <h1 align="center">IT Books Catalogue</h1>
    <table width="100%" frame="box" rules="all" cellpadding="10">
      <thead>
        <tr>
          <th>Cover Image</th>
          <th>Author Details</th>
          <th>Price</th>
          <th>Add to Cart</th>
        </tr>
      </thead>
      <tfoot></tfoot>
      <tbody>
        <tr align="center">
          <td></td>
          <td>Book: C Programming<br/>Authors: B. W. Kernighan,
Dennis M. Ritchie</td>
          <td>Rs.120</td>
          <td></td>
        </tr>
        <tr align="center">
          <td></td>
          <td>Book: Data Structures<br/>Author: S. Lipschutz</td>
          <td>Rs.150</td>
          <td></td>
        </tr>
      </tbody>
    </table>
  </body>
</html>

```

```
</tr>
<tr align="center">
  <td></td>
  <td>Book: Java 2 Complete Reference<br/>Author: Herbert
Schildt</td>
  <td>Rs. 200</td>
  <td></td>
</tr>
<tr align="center">
  <td></td>
  <td>Book: Operating System Concepts<br/>Authors: Galvin,
Gagne</td>
  <td>Rs. 250</td>
  <td></td>
</tr>
</tbody>
</table>
</body>
</html>
```

Exercise – 2

Problem statement: Create the following static web pages for an online book store web site:

4) Registration page:

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. Gender (radio buttons)
6. Date of birth (dropdown boxes)
7. Language known (check boxes)
8. Address (text area)

Sample output:

The screenshot shows a web browser window displaying the 'Vishnu Online Book Shop' registration page. The page has a header with the shop's logo and name, and a navigation menu with links for Home, Login, Registration, Catalogue, and Cart. On the left side, there is a vertical menu with links for CSE, ECE, EEE, and IT. The main content area is titled 'Registration Form' and contains the following fields and controls:

- Name:
- Password:
- Email:
- Phone No:
- Gender: Male Female
- Date of Birth: Day: 1, Month: Jan, Year: 2004
- Languages known: English Tehugu Hindi Tamil
- Address:
- Submit: Clear:


5) Cart page:



Create a cart page with the following information:

1. Book name
2. Price
3. Quantity
4. Amount

Also display the total amount to be paid along with a Make Payment button.

Sample output:

 VISHNU UNIVERSITY OF TECHNOLOGY	<h1>Vishnu Online Book Shop</h1>			
	Home	Login	Registration	Cart

CSE ECE EEE IT	<h2>Cart Items</h2>			
	Book Name	Price	Quantity	Amount
	C Programming	Rs. 120	1	Rs. 120
	Data Structures	Rs. 150	1	Rs. 150
	Operating System Concepts	Rs. 250	1	Rs. 250
		Total:	Rs. 520	
				
				

Solution:

reg.html

```
<html>
  <head>
    <title>Registration Form</title>
  </head>
  <body>
    <h1 align="center">Registration Form</h1>
    <form action="" method="post">
      <table align="center" border="0">
        <tr>
          <td align="right"><label>Name:</label></td>
          <td><input type="text" /></td>
        </tr>
        <tr>
          <td align="right"><label>Password:</label></td>
          <td><input type="password" /></td>
        </tr>
        <tr>
          <td align="right"><label>Email:</label></td>
          <td><input type="text" /></td>
        </tr>
        <tr>
          <td align="right"><label>Phone No:</label></td>
          <td><input type="text" maxlength="10" /></td>
        </tr>
        <tr>
          <td align="right"><label>Gender:</label></td>
          <td>
            <input type="radio" name="gender" />Male
            <input type="radio" name="gender" />Female
          </td>
        </tr>
        <tr>
          <td align="right"><label>Date of Birth:</label></td>
          <td>
            Day:
            <select>
              <option>1</option><option>2</option><option>3</option>
            </select>
            Month:
            <select>
              <option>Jan</option><option>Feb</option><option>Mar</option>
            </select>
            Year:
            <select>
```

```

on> <option>2004</option><option>2003</option><option>2002</option><option>2001</opti
on>
        </select>
    </td>
</tr>
<tr>
<td align="right"><label>Languages known:</label></td>
<td>
        <input type="checkbox" />English
        <input type="checkbox" />Telugu
        <input type="checkbox" />Hindi
        <input type="checkbox" />Tamil
    </td>
</tr>
<tr>
<td align="right" valign="top"><label>Address</label></td>
<td>
        <textarea rows="4" cols="30"></textarea>
    </td>
</tr>
<tr>
<td></td>
<td ><input type="submit" value="Submit" /><input
type="reset" value="Clear" /></td>
</tr>
</table>
</form>
</body>
</html>

```

cart.html

```

<html>
<head>
    <title>Cart Page</title>
</head>
<body>
    <h1 align="center">Cart Items</h1>
    <table width="80%" border="1" rules="all" align="center">
        <tr>
            <th>Book Name</th>
            <th>Price</th>
            <th>Quantity</th>
            <th>Amount</th>
        </tr>
        <tr align="center">
            <td>C Programming</td>
            <td>Rs. 120</td>
            <td>1</td>
            <td>Rs. 120</td>
        </tr>
    </table>

```

```

</tr>
<tr align="center">
  <td>Data Structures</td>
  <td>Rs. 150</td>
  <td>1</td>
  <td>Rs. 150</td>
</tr>
<tr align="center">
  <td>Operating System Concepts</td>
  <td>Rs. 250</td>
  <td>1</td>
  <td>Rs. 250</td>
</tr>
<tr>
  <td colspan="3" align="right">Total:</td>
  <td align="center">Rs. 520</td>
</tr>
<tr>
  <td colspan="4" align="right">
    <form action="" method="post">
      <input type="image" src="images/make-
payment.png" />
    </form>
  </td>
</tr>
</table>
</body>
</html>

```


Exercise – 3

Problem statement: Use external CSS to perform the following on a webpage:

1. Use different font properties.
2. Set the background image for the body of the webpage and as well as for individual elements in the webpage.
3. Control the repetition of the image using the *background-repeat* property.
4. Use the pseudo classes of the anchor element and apply different styles to the hyper links
5. Add customized cursors using the *cursor* property.

Sample output:

About Us



[Vishnu Institute of Technology - VIT Route Map](#)

Vishnu Institute of Technology, the scion of Shri Vishnu Educational Society was established in 2008 and is currently the eleventh educational institution to disseminate education under the aegis of this society. Nascent that it is, it combines in its matrix the lofty idealism of its Founder Chairman the Late Padmabhushan Dr. B. V. Raju, a distinguished industrialist, philanthropist and an eminent educationalist, the experience and vigour provided by the Chairman Sri K.V. Vishnu Raju, a man of holistic vision and his team comprising dexterous administrators, reputed academicians and brilliant line of students. They constantly strive to make the institution join the ranks of prestigious technical institutions.

Campus

The Campus, sprawling over 100 acres, is located in the verdant atmosphere of Vishnupur in Bhimavaram. It is in the very vicinity of the town and is well connected by road. VISHNU also provides hostel facilities to the students who opt for a residential mode of education. The hostels are constantly updated and provide an atmosphere conducive to pursue education.

Hands on Experience

To make the instruction in VISHNU more practical-oriented, special focus is on hands on experience. The Assistive Technologies Lab run in collaboration with the University of U Mass, USA helps students to combine technology with a humanistic outlook. Gadgets for the physically challenged are designed and developed here by the students under the guidance of eminent professors both from the institute and abroad.


VISHNU aims at empowering students with technical skills and can-do entrepreneurial spirit. The IBM Software Centre of Excellence in the campus provides the students with the best of quality technical education there by increasing the skill set of each student and faculty for a great career.

VISHNU also provides the opportunity to work in the Assistive Technologies Lab, where technology is combined with a humanistic outlook by designing and developing gadgets for the physically challenged under the guidance of eminent professors from abroad. The involvement of our students in the development of the automated chair & walking stick for the blind bears testimony to it.

Besides providing opportunities for employment in various reputed organizations, the Placement Cell also assists the students to be industry ready through soft skills training, communications skills programmes, personality development sessions and aptitude are only a few of the programmes to name. In the very year of its inception the college has trained one batch of students in foreign languages in collaboration with Goethe Zentrum, the German Cultural Association.

Vishnu FM 90.4 and Vishnu TV Academy

Adding diversity and vibrancy to the academic activities are the Vishnu 90.4 FM Radio and the Vishnu TV Academy. They provide the students the much needed platform to showcase their academic proficiency, communication skills and cultural expertise. The students design and present the programmes here.



VISHNU
Vishnu Institute of Technology

Solution:

index.html

```
<html>
  <head>
    <title>About Us</title>
    <link rel="stylesheet" type="text/css" href="css/style.css" />
  </head>
  <body>
    <h1 align="center">about us</h1>
    <p align="center">
      
    </p>
    <p align="center">
      <a href="http://www.vishnu.edu.in" class="xlink">Vishnu Institute of
Technology</a> -
      <a href="http://www.vishnu.edu.in/campus.php" class="hlink">VIT Route
Map</a>
    </p>
    <div id="content-div">
      <p>Vishnu Institute of Technology, the scion of Shri Vishnu Educational
Society was established in 2008 and is currently the eleventh educational institution to disseminate
education under the aegis of this society. Nascent that it is, it combines in its matrix the lofty
idealism of its Founder Chairman the Late Padmabhushan Dr. B. V. Raju, a distinguished industrialist,
philanthropist and an eminent educationalist; the experience and vigour provided by the Chairman
Sri K.V. Vishnu Raju, a man of holistic vision and his team comprising dexterous administrators,
reputed academicians and brilliant line of students. They constantly strive to make the institution
join the ranks of prestigious technical institutions.</p>
      <h2>Campus</h2>
      <p>The Campus, sprawling over 100 acres, is located in the verdant
atmosphere of Vishnupur in Bhimavaram. It is in the very vicinity of the town and is well connected
by road. VISHNU also provides hostel facilities to the students who opt for a residential mode of
education. The hostels are constantly updated and provide an atmosphere conducive to pursue
education. </p>
      <h2>Hands on Experience </h2>
      <p>To make the instruction in VISHNU more practical-oriented, special focus
is on hands on experience. The Assistive Technologies Lab run in collaboration with the University of
U Mass, USA helps students to combine technology with a humanistic outlook. Gadgets for the
physically challenged are designed and developed here by the students under the guidance of
eminent professors both from the Institute and abroad. </p>
      <p>VISHNU aims at empowering students with technical skills and can-do
entrepreneurial spirit. The IBM Software Centre of Excellence in the campus provides the students
with the best of quality technical education there by increasing the skill set of each student and
faculty for a great career. </p>
      <p>VISHNU also provides the opportunity to work in the Assistive
Technologies Lab, where technology is combined with a humanistic outlook by designing and
developing gadgets for the physically challenged under the guidance of eminent professors from
abroad. The involvement of our students in the development of the automated chair & walking stick
for the blind bears testimony to it.</p>
    </div>
  </body>
</html>
```

<p>Besides providing opportunities for employment in various reputed organizations, the Placement Cell also assists the students to be industry ready through soft skills training, communications skills programmes, personality development sessions and aptitude are only a few of the programmes to name. In the very year of its inception the college has trained one batch of students in foreign languages in collaboration with Goethe Zentrum, the German Cultural Association. </p>

<h2>Vishnu FM 90.4 and Vishnu TV Academy </h2>

<p>Adding diversity and vibrancy to the academic activities are the Vishnu 90.4 FM Radio and the Vishnu TV Academy. They provide the students the much needed platform to showcase their academic proficiency, communication skills and cultural expertise. The students design and present the programmes here. </p>

</div>

</body>

</html>

style.css

```
body
{
    background-image: url('../images/logo.png');
    background-repeat: no-repeat;
    background-position: right top;
}

h1
{
    color: purple;
    font-family: arial;
    font-size: 24px;
    text-decoration: underline;
    text-transform: capitalize;
}

#content-div
{
    width: 800px;
    margin: 0 auto;
    text-align: justify;
}

#content-div p
{
    color: grey;
    font-family: arial;
    font-size: 14px;
}

h2
{
    background-image: url('../images/arrow.png');
    background-repeat: no-repeat;
```

```
    text-indent: 30px;
    color: grey;
    font-family: arial;
    font-size: 22px;
    margin-bottom: 0;
}
```

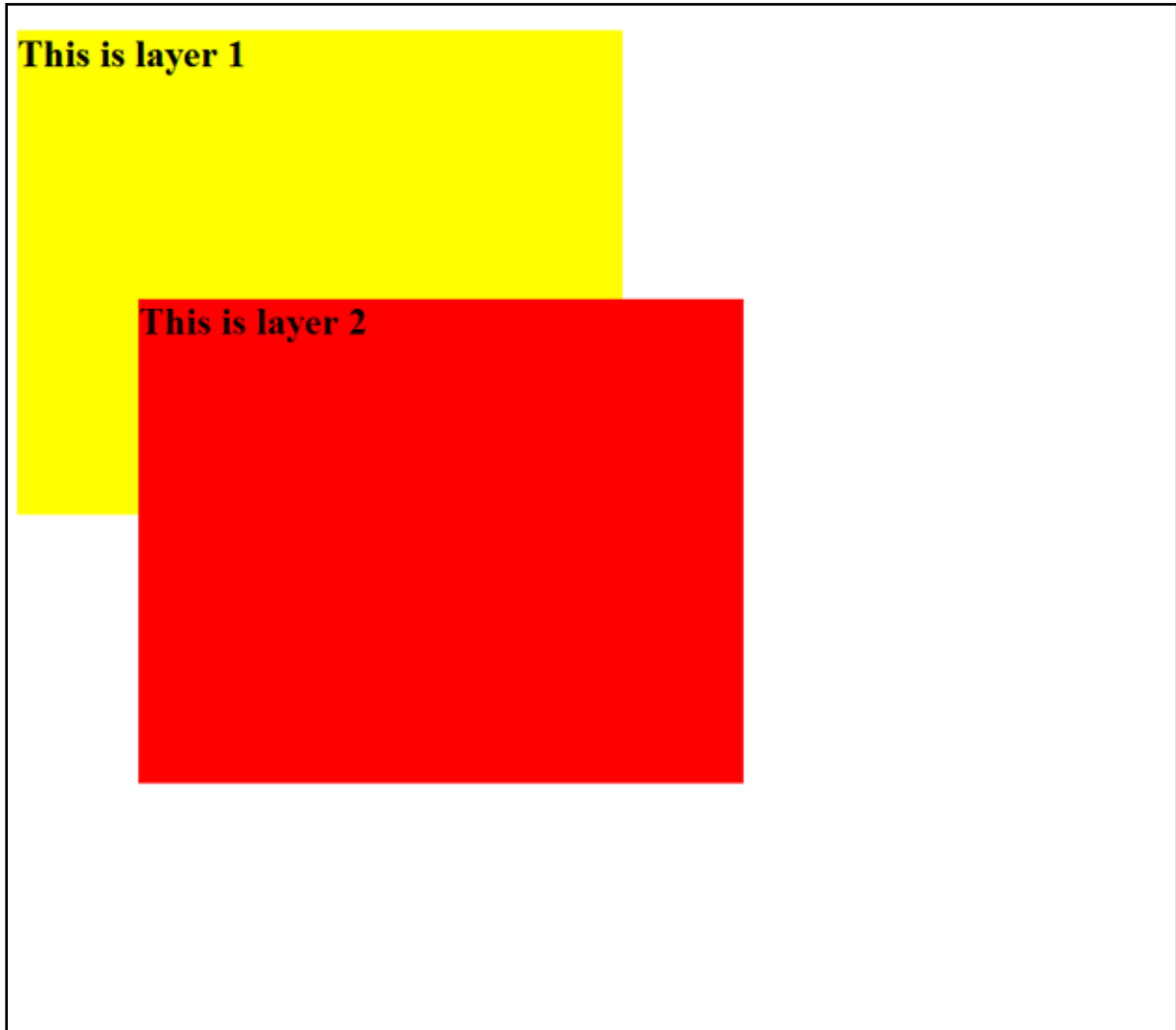
```
.xlink {cursor: crosshair;}
.hlink {cursor: help;}
```

```
a:link {color: blue;}
a:visited {color: grey;}
a:focus {background-color: yellow;}
a:hover {text-decoration: none;}
a:active {color: black;}
```

Exercise – 4

Problem statement: Using z-index property in CSS, arrange two layers on top of each other.

Sample output:



Solution:

```
<html>
  <head>
    <title>Layers</title>
  </head>
  <body>
    <div style="width: 500px; height: 400px; background-color: yellow; position:
relative; z-index: 1;">
      <h1>This is layer 1</h1>
    </div>
    <div style="width: 500px; height: 400px; background-color: red; position: relative;
top: -200px; left: 100px; z-index: 2;">
      <h1>This is layer 2</h1>
    </div>
  </body>
</html>
```

Exercise – 5:

Problem Statement: Write Javascript to validate the following fields in a registration form and login form:

1. Name should contain alphabets and length should not be less than 6 characters.
2. Password should not be less than 6 characters.
3. Email id should be in a valid format.
4. Phone number should contain 10 digits only.

Solution:

login.html

```
<html>
  <head>
    <title>Login Form</title>
    <script type="text/javascript" src="js/login.js"></script>
  </head>
  <body>
    <br/>
    <h1 align="center">Login Form</h1>
    <form action="success.html" method="get" onsubmit="return validate()" >
    <table align="center" border="0">
      <tr>
        <td align="right">Username:</td>
        <td><input type="text" id="uname" /></td>
      </tr>
      <tr>
        <td align="right">Password:</td>
        <td><input type="password" id="upass" /></td>
      </tr>
      <tr>
        <td align="right"><input type="submit" value="Submit"/></td>
        <td><input type="reset" value="Reset"/></td>
      </tr>
    </table>
    </form>
  </body>
</html>
```

login.js

```
function validate()
{
  var username = document.getElementById("uname").value;
  var password = document.getElementById("upass").value;
  if(username.length < 6)
  {
    alert("Username should contain atleast 6 characters!");
  }
}
```

```

        return false;
    }
    if(password.length < 6)
    {
        alert("Password should contain atleast 6 characters!");
        return false;
    }
    return true;
}

```

reg.html

```

<html>
  <head>
    <title>Registration Form</title>
    <script type="text/javascript" src="js/reg.js"></script>
  </head>
  <body>
    <h1 align="center">Registration Form</h1>
    <form action="success.html" method="post" onsubmit="return validate()" >
      <table align="center" border="0">
        <tr>
          <td align="right"><label>Name:</label></td>
          <td><input type="text" id="uname" /></td>
        </tr>
        <tr>
          <td align="right"><label>Password:</label></td>
          <td><input type="password" id="upass" /></td>
        </tr>
        <tr>
          <td align="right"><label>Email:</label></td>
          <td><input type="text" id="email" /></td>
        </tr>
        <tr>
          <td align="right"><label>Phone No:</label></td>
          <td><input type="text" maxlength="10" id="uphone"
/></td>
        </tr>
        <tr>
          <td align="right"><label>Gender:</label></td>
          <td>
            <input type="radio" name="gender" />Male
            <input type="radio" name="gender" />Female
          </td>
        </tr>
        <tr>
          <td align="right"><label>Date of Birth:</label>
          <td>
            Day:
            <select>

```

```

        <option>1</option><option>2</option><option>3</option>
        </select>
        Month:
        <select>

        <option>Jan</option><option>Feb</option><option>Mar</option>
        </select>
        Year:
        <select>

on>        <option>2004</option><option>2003</option><option>2002</option><option>2001</opti
        </select>
        </td>
    </tr>
    <tr>
        <td align="right"><label>Languages known:</label></td>
        <td>
            <input type="checkbox" />English
            <input type="checkbox" />Telugu
            <input type="checkbox" />Hindi
            <input type="checkbox" />Tamil
        </td>
    </tr>
    <tr>
        <td align="right" valign="top"><label>Address</label></td>
        <td>
            <textarea rows="4" cols="30"></textarea>
        </td>
    </tr>
    <tr>
        <td></td>
        <td ><input type="submit" value="Submit" /><input
type="reset" value="Clear" /></td>
    </tr>
</table>
</form>
</body>
</html>

```

reg.js

```

function validate()
{
    var username = document.getElementById("uname").value;
    var password = document.getElementById("upass").value;
    var emailval = document.getElementById("email").value;
    var phone = document.getElementById("uphone").value;
    if(username.length < 6)
    {

```



```
        alert("Username should contain atleast 6 characters!");
        return false;
    }
    if(password.length < 6)
    {
        alert("Password should contain atleast 6 characters!");
        return false;
    }
    var atpos = emailval.lastIndexOf("@");
    var dotpos = emailval.lastIndexOf(".");
    if(atpos == -1 || dotpos == -1 || atpos > dotpos || dotpos == emailval.length-1)
    {
        alert("Incorrect email format!");
        return false;
    }
    if(phone.length < 10)
    {
        alert("Phone number should contain atleast 10 digits!");
        return false;
    }
    return true;
}
```

Exercise – 6:

Problem statement: Using PHP store the following information from a registration form in the MYSQL database:

1. Name
2. Password
3. Email id
4. Phone number

Solution:

reg.html

```
<html>
  <head>
    <title>Registration Form</title>
    <script type="text/javascript" src="js/reg.js"></script>
  </head>
  <body>
    <h1 align="center">Registration Form</h1>
    <form action="userins.php" method="post" onsubmit="return validate()" >
      <table align="center" border="0">
        <tr>
          <td align="right"><label>Name:</label></td>
          <td><input type="text" id="uname" name="user" /></td>
        </tr>
        <tr>
          <td align="right"><label>Password:</label></td>
          <td><input type="password" id="upass" name="pass"
/></td>
        </tr>
        <tr>
          <td align="right"><label>Email:</label></td>
          <td><input type="text" id="email" name="emailid" /></td>
        </tr>
        <tr>
          <td align="right"><label>Phone No:</label></td>
          <td><input type="text" maxlength="10" id="uphone"
name="phone" /></td>
        </tr>
        <tr>
          <td align="right"><label>Gender:</label></td>
          <td>
            <input type="radio" name="gender" />Male
            <input type="radio" name="gender" />Female
          </td>
        </tr>
        <tr>
          <td align="right"><label>Date of Birth:</label></td>
          <td>
```

```

Day:
<select>

<option>1</option><option>2</option><option>3</option>
</select>
Month:
<select>

<option>Jan</option><option>Feb</option><option>Mar</option>
</select>
Year:
<select>

<option>2004</option><option>2003</option><option>2002</option><option>2001</opti
on>
</select>
</td>
</tr>
<tr>
<td align="right"><label>Languages known:</label></td>
<td>
<input type="checkbox" />English
<input type="checkbox" />Telugu
<input type="checkbox" />Hindi
<input type="checkbox" />Tamil
</td>
</tr>
<tr>
<td align="right" valign="top"><label>Address</label></td>
<td>
<textarea rows="4" cols="30"></textarea>
</td>
</tr>
<tr>
<td></td>
<td ><input type="submit" value="Submit" /><input
type="reset" value="Clear" /></td>
</tr>
</table>
</form>
</body>
</html>

```

userins.php

```

<html>
<head><title>User Insert</title></head>
<body>
<?php
$hostname = "localhost";
$username = "root";

```

```
$password = "123456";
mysql_connect($hostname, $username, $password) or die(mysql_error());
//echo "Connected to MYSQL successfully...";
echo "<br/>";
mysql_select_db("shoppe") or die(mysql_error());
//echo "Connected to database successfully...";
echo "<br/>";
$un = $_REQUEST["user"];
$pw = $_REQUEST["pass"];
$em = $_REQUEST["emailid"];
$ph = $_REQUEST["phone"];
$query = "insert into userdetails values('$un','$pw','$em','$ph')";
$result = mysql_query($query) or die(mysql_error());
if($result >= 1)
    echo "User details entered successfully!";
?>
</body>
</html>
```

Exercise – 7:

Problem statement: Store the details (usernames and passwords) of four users in web.xml file and write a servlet program to validate the details of the user provided in the login form against the details stored in the web.xml (deployment descriptor) file.

Solution:

login.html

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
    <form action="ValidServ" method="post">
        Username: <input type="text" name="txtuser" /><br/>
        Password: <input type="password" name="txtpass" /><br/>
        <input type="submit" value="Submit" />
        <input type="reset" value="Clear" />
    </form>
</body>
</html>
```

ValidServ.java

```
import java.io.IOException;
import java.util.Enumeration;

import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class ValidServ extends HttpServlet {

    ServletConfig cfg;

    public ValidServ() {
        super();
    }

    public void init(ServletConfig config) throws ServletException {
        cfg = config;
    }
}
```

```

    public void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String un = request.getParameter("txtuser");
        String pw = request.getParameter("txtpass");
        boolean flag = false;
        Enumeration<String> initparams = cfg.getInitParameterNames();
        while(initparams.hasMoreElements())
        {
            String name = initparams.nextElement();
            String pass = cfg.getInitParameter(name);
            if(un.equals(name) && pw.equals(pass))
            {
                flag = true;
            }
        }
        if(flag)
        {
            response.getWriter().print("Valid user!");
        }
        else
        {
            response.getWriter().print("Invalid user!");
        }
    }
}

```

web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <display-name>InitServ</display-name>
  <servlet>
    <description></description>
    <display-name>ValidServ</display-name>
    <servlet-name>ValidServ</servlet-name>
    <servlet-class>ValidServ</servlet-class>
    <init-param>
      <description></description>
      <param-name>user1</param-name>
      <param-value>pass1</param-value>
    </init-param>
    <init-param>
      <description></description>
      <param-name>user2</param-name>
      <param-value>pass2</param-value>
    </init-param>
    <init-param>
      <description></description>
      <param-name>user3</param-name>
      <param-value>pass3</param-value>
    </init-param>
  </servlet>

```

```
<init-param>
  <description></description>
  <param-name>user4</param-name>
  <param-value>pass4</param-value>
</init-param>
</servlet>
<servlet-mapping>
  <servlet-name>ValidServ</servlet-name>
  <url-pattern>/ValidServ</url-pattern>
</servlet-mapping>
</web-app>
```

Exercise – 8:

Problem statement: Store the details (usernames and passwords) of four users using cookies and write a servlet program to validate the details of the user provided in the login form against the details stored in the cookies.

Solution:

cookies.html

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Create Cookies</title>
</head>
<body>
    <form action="AddCookies" method="get">
        <input type="submit" value="Create Cookies!" />
    </form>
</body>
</html>
```

login.html

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
    <form action="ValidServ" method="post">
        Username: <input type="text" name="txtuser" /><br/>
        Password: <input type="password" name="txtpass" /><br/>
        <input type="submit" value="Submit" />
        <input type="reset" value="clear" />
    </form>
</body>
</html>
```

AddCookies.java

```
import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class AddCookies extends HttpServlet {
```



```

public AddCookies() {
    super();
}

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    Cookie c1 = new Cookie("user1", "pass1");
    Cookie c2 = new Cookie("user2", "pass2");
    Cookie c3 = new Cookie("user3", "pass3");
    Cookie c4 = new Cookie("user4", "pass4");
    response.addCookie(c1);
    response.addCookie(c2);
    response.addCookie(c3);
    response.addCookie(c4);
    response.getWriter().print("Cookies created successfully!<br/>");
    response.getWriter().print("<a href='login.html'>Go to login page</a>");
}
}

```

ValidServ.java

```

import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class ValidServ extends HttpServlet {

    public ValidServ() {
        super();
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String un = request.getParameter("txtuser");
        String pw = request.getParameter("txtpass");
        boolean flag = false;
        Cookie c[] = request.getCookies();
        for(int i = 0; i < c.length; i++)
        {
            if(c[i].getName().equals(un) && c[i].getValue().equals(pw))
            {
                flag = true;
            }
        }
    }
}

```

```
        if(flag)
            response.getWriter().print("Valid User!");
        else
            response.getWriter().print("Invalid User!");
    }
}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <servlet>
    <description></description>
    <servlet-name>AddCookies</servlet-name>
    <servlet-class>AddCookies</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>AddCookies</servlet-name>
    <url-pattern>/AddCookies</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <servlet-name>ValidServ</servlet-name>
    <servlet-class>ValidServ</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ValidServ</servlet-name>
    <url-pattern>/ValidServ</url-pattern>
  </servlet-mapping>
</web-app>
```

Exercise – 9:

Problem statement: Using servlets or JSP and JDBC store and retrieve the following information from a database:

1. Name
2. Password
3. Email id
4. Phone number

Solution:

reg.html

```
<html>
  <head>
    <title>Registration Form</title>
  </head>
  <body>
    <h1 align="center">Registration Form</h1>
    <form action="StoreDetailsServ" method="post">
      <table align="center" border="0">
        <tr>
          <td align="right"><label>Name:</label></td>
          <td><input type="text" name="txtuser"/></td>
        </tr>
        <tr>
          <td align="right"><label>Password:</label></td>
          <td><input type="password"
name="txtpass"/></td>
        </tr>
        <tr>
          <td align="right"><label>Email:</label></td>
          <td><input type="text"
name="txtemail"/></td>
        </tr>
        <tr>
          <td align="right"><label>Phone
No:</label></td>
          <td><input type="text" maxlength="10"
name="txtphone"/></td>
        </tr>
        <tr>
          <td align="right"><label>Gender:</label></td>
          <td>
            <input type="radio" name="gender"
/>Male
            <input type="radio" name="gender"
/>Female
          </td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

```

        </tr>
        <tr>
            <td align="right"><label>Date of Birth:</td>
            <td>
                Day:
                <select>
                    <option>1</option><option>2</option><option>3</option>
                </select>
                Month:
                <select>
                    <option>Jan</option><option>Feb</option><option>Mar</option>
                </select>
                Year:
                <select>
                    <option>2004</option><option>2003</option><option>2002</option><opti
on>2001</option>
                </select>
            </td>
        </tr>
        <tr>
            <td align="right"><label>Languages
known:</label></td>
            <td>
                <input type="checkbox" />English
                <input type="checkbox" />Telugu
                <input type="checkbox" />Hindi
                <input type="checkbox" />Tamil
            </td>
        </tr>
        <tr>
            <td align="right"
valign="top"><label>Address</label></td>
            <td>
                <textarea rows="4"
cols="30"></textarea>
            </td>
        </tr>
        <tr>
            <td></td>
            <td ><input type="submit" value="Submit"
/><input type="reset" value="Clear" /></td>
        </tr>
    </table>
</form>
</body>
</html>

```

StoreDetailsServ.java

```
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class StoreDetailsServ extends HttpServlet {

    public StoreDetailsServ() {
        super();
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.setContentType("text/html");
        String un = request.getParameter("txtuser");
        String pw = request.getParameter("txtpass");
        String email = request.getParameter("txtemail");
        String ph = request.getParameter("txtphone");
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system", "123456");
            PreparedStatement ps = con.prepareStatement("insert into regdetails
values(?,?,?,?)");
            ps.setString(1, un);
            ps.setString(2, pw);
            ps.setString(3, email);
            ps.setString(4, ph);
            int result = ps.executeUpdate();
            if(result >= 1)
            {
                response.getWriter().print("User details inserted successfully!<br
/>");
                response.getWriter().print("<a href='getdetails.jsp'>Show User
Details</a>");
            }
        }
        catch(Exception e)
        {
            response.getWriter().print("Database error!");
        }
    }
}
```

```
}
```

getdetails.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Registered User Details</title>
</head>
<body>
    <%
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system", "123456");
            Statement st = con.createStatement();
            String sql = "select *from regdetails";
            ResultSet rs = st.executeQuery(sql);
            out.print("<table border='1' cellpadding='10'>");
            out.print("<tr><td>Name</td><td>Password</td><td>Email
ID</td><td>Phone</td></tr>");
            while(rs.next())
            {

                out.print("<tr><td>" + rs.getString(1) + "</td><td>" + rs.getString(2) + "</td><td>" + rs.getString(3)
) + "</td><td>" + rs.getString(4) + "</td></tr>");
            }
            out.print("</table>");
        }
        catch(Exception e)
        {
            out.print("Database Error!");
        }
    %>
</body>
</html>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
    <servlet>
        <servlet-name>StoreDetailsServ</servlet-name>
        <servlet-class>StoreDetailsServ</servlet-class>
    </servlet>
    <servlet-mapping>
```

```
    <servlet-name>StoreDetailsServ</servlet-name>
    <url-pattern>/StoreDetailsServ</url-pattern>
  </servlet-mapping>
</web-app>
```

Exercise – 10:

Problem statement: Store the details of the users in a database using JSP and JDBC and validate the user details provided in a login form against the details available in the database.

Solution:

reg.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>User Registration</title>
</head>
<body>
    <h1>User Registration</h1>
    <form action="storedetails.jsp" method="post">
        Enter Username: <input type="text" name="txtuser" /><br/>
        Enter Password: <input type="password" name="txtpass" /><br/>
        <input type="submit" value="Register" />
        <input type="reset" value="Clear" />
    </form>
</body>
</html>
```

storedetails.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Store User Details</title>
</head>
<body>
    <%
        String un = request.getParameter("txtuser");
        String pw = request.getParameter("txtpass");
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"system", "123456");
```



```

        PreparedStatement ps = con.prepareStatement("insert into users
values(?,?)");
        ps.setString(1, un);
        ps.setString(2, pw);
        int result = ps.executeUpdate();
        if(result >= 1)
        {
            out.print("Registered Successfully<br />");
            out.print("<a href='login.jsp'>Click here to
login</a>");
        }
    }
    catch(Exception e)
    {
        out.print("Database Error!");
    }
}
%>
</body>
</html>

```

login.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Login</title>
</head>
<body>
    <h1>Login</h1>
    <form action="validate.jsp" method="post">
        Username: <input type="text" name="Lgnuser" /><br/>
        Password: <input type="password" name="Lgnpass" /><br/>
        <input type="submit" value="Sign In" />
        <input type="reset" value="Clear" />
    </form>
</body>
</html>

```

validate.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>User Validation</title>

```

```
</head>
<body>
  <%
    response.setContentType("text/html");
    String un = request.getParameter("lgnuser");
    String pw = request.getParameter("lgnpass");
    try
    {
      Class.forName("oracle.jdbc.driver.OracleDriver");
      Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"system", "123456");
      Statement st = con.createStatement();
      String sql = "select *from users";
      ResultSet rs = st.executeQuery(sql);
      boolean flag = false;
      while(rs.next())
      {
        if(un.equals(rs.getString(1)) &&
pw.equals(rs.getString(2)))
        {
          flag = true;
        }
      }
      if(flag)
        out.print("Valid user!");
      else
      {
        out.print("Bad username or password!<br/>");
        out.print("<a href='login.jsp'>Go Back</a>");
      }
    }
    catch(Exception e)
    {
      out.print("Database Error!");
    }
  %>
</body>
</html>
```

Exercise – 11:

Problem Statement: Create a table in the database containing the columns to store book details like: book name, authors, description, price and URL of the book's cover image. Using JSP and JDBC retrieve the details in the table and display them on the webpage.

Solution:

display.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
    <head>
        <title>Books Catalogue</title>
    </head>
    <body>
        <%
            try
            {
                Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system",
"123456");

                Statement st = con.createStatement();
                String query = "select *from books";
                ResultSet rs = st.executeQuery(query);
                out.print("<table border='1' cellpadding='10'>");
                out.print("<tr><td>Book
Name</td><td>Author(s)</td><td>Description</td><td>Price</td><td>Image</td></tr>");
                while(rs.next())
                {
                    out.print("<tr>");
                    out.print("<td>" + rs.getString(1) + "</td>");
                    out.print("<td>" + rs.getString(2) + "</td>");
                    out.print("<td>" + rs.getString(3) + "</td>");
                    out.print("<td>" + rs.getString(4) + "</td>");
                    out.print("<td><img src='" + rs.getString(5) + "'
height='150px' width='100px' /></td>");
                    out.print("</tr>");
                }
                out.print("</table>");
            }
            catch(Exception e)
            {
                e.printStackTrace();
            }
        %>
    </body>
</html>
```

Exercise – 12:

Problem Statement: Create a catalogue page containing the book's details like: cover image, book name, authors, description, price and an Add to Cart button. Also create a cart page which shows details like: book name, price, quantity, amount and total amount to be paid. Using JSP display the content in the cart page dynamically by retrieving the data from sessions.

Solution:

home.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.util.*;" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>User Home</title>
</head>
<body>
    <%
        ArrayList<String> bookids = new ArrayList<String>();
        session.setAttribute("ids", bookids);
    %>
    <a href="books.jsp">View Catalogue</a>
</body>
</html>
```

books.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Books Catalogue</title>
</head>
<body>
    <%
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system"
, "123456");
            Statement st = con.createStatement();
            ResultSet rs = st.executeQuery("select *from bookdetails");
```

```

        out.print("<table border='1' cellpadding='10'>");
        out.print("<tr><td>Cover Image</td><td>Book
Title</td><td>Authors</td><td>Price</td><td>Purchase</td></tr>");
        while(rs.next())
        {
            out.print("<tr><td>"+rs.getString(5)+"</td><td>"+rs.getString(2)+"</
td><td>"+rs.getString(3)+"</td><td>"+rs.getString(4)+"</td><td>");
            out.print("<a
href='cart.jsp?bid="+rs.getString(1)+"'>Add to Cart</a></td></tr>");
        }
        out.print("</table>");
    }
    catch(Exception e)
    {
        out.print("Database error: "+e.getMessage());
    }
    %>
</body>
</html>

```

cart.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@ page import="java.sql.*, java.util.*;" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Shopping Cart</title>
</head>
<body>
    <%
        String isbn = request.getParameter("bid");
        ArrayList<String> bookids =
(ArrayList<String>)session.getAttribute("ids");
        bookids.add(isbn);
        session.setAttribute("ids", bookids);
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "system"
, "123456");
        Statement st = con.createStatement();
        ResultSet rs;
        bookids = (ArrayList<String>)session.getAttribute("ids");
        out.print("<table border='1' cellpadding='10'>");
        out.print("<tr><td>Book
Title</td><td>Authors</td><td>Price</td></tr>");
        for(String id : bookids)
    
```

```
        {
            String sql = "select *from bookdetails where
bid='"+id+"'";
            rs = st.executeQuery(sql);
            rs.next();

            out.print("<tr><td>" + rs.getString(2) + "</td><td>" + rs.getString(3) + "</
td><td>" + rs.getString(4) + "</td></tr>");
        }
        out.print("</table>");
    }
    catch(Exception e)
    {
        out.print("Database error: " + e.getMessage());
    }
    %>
</body>
</html>
```