

Exp 1: Develop static pages(using HTML and CSS) of an online book store . The pages should resemble:

www.flipkart.com. The website should consist the following pages.

- a) Home page
- b) Registration and user Login
- c) User profile page
- d) Books catalog
- e) Shopping cart
- f) Payment by credit card
- g)Order conformation

a) Home page(home.html)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>home</title>
  <style>

  body
{
width: 100%;
  background: linear-gradient(to top, rgba(0,0,0,0.5)50%,
  rgba(0,0,0,0.5)50%),url(book.jfif);
  background-position: center;
```

```
        background-size: cover;
        height: 109vh;
    }
h1{
    font-family: arial;
    font-size: 50px;
    color: #ff7200;
}

a
{
    text-decoration: none;
    color: #fff;
    font-family: Arial;
    font-weight: bold;
    align-content: center;
    transition: 0.4s ease-in-out

}
a:hover
{
    color: #ff7200;
}
.vertical-menu {
width: 200px;}
.vertical-menu a {
background-color: #eee;
```

```
color: black;
display: block;
padding: 12px;
text-decoration: none;
}
    a
{
    text-decoration: none;
    color: #fff;
    font-family: Arial;
    font-weight: bold;
    align-content: center;
    transition: 0.4s ease-in-out

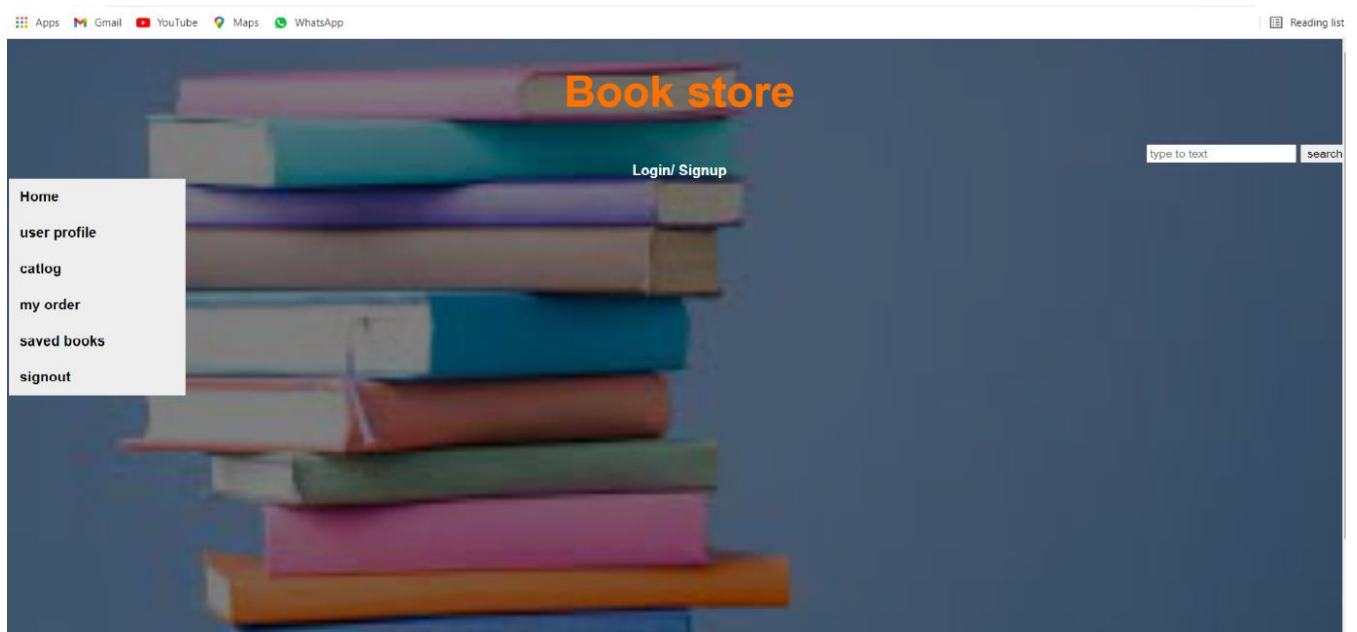
}
a:hover
{
    color: #ff7200;
}
</style>
</head>
<body >
<form >
    <h1 align="center">Book store</h1>
    <div class="search" align=" right">
    <input class="srch" type="search" name="" placeholder="type to text">
    <a href="#"><button class="btn">search</button></a>
```

```

</div>
<div align="center">
<a href="login.html" >Login</a>
<a href="register.html" >Signup</a>
</div>
</form>
<div class="vertical-menu">
<a href="#" class="active">Home</a>
<a href="userprofile.html">user profile</a>
<a href="catlog.html">catlog</a>
<a href="#">my order</a>
<a href="shoppingcart.html">saved books</a>
<a href="#">signout</a>
</div>
</body>
</html>

```

Output:-



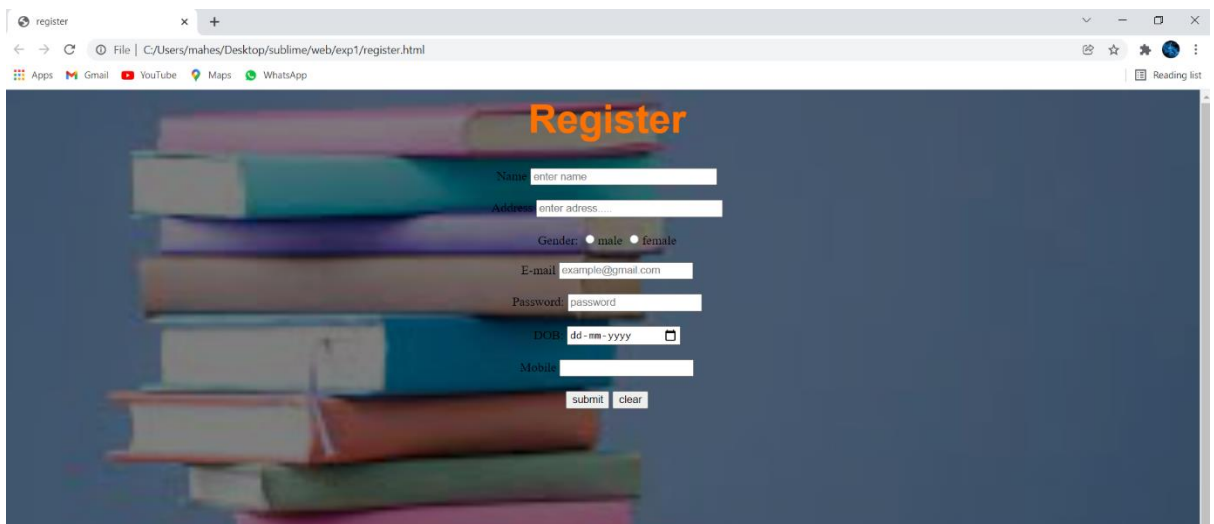
b) Registration page and login page

Registration page: (register.html)

```
<html>
<head><title>register</title>
  <style>
    body
  {
width: 100%;
    background: linear-gradient(to top, rgba(0,0,0,0.5)50%,
    rgba(0,0,0,0.5)50%),url(book.jfif);
    background-position: center;
    background-size: cover;
    height: 109vh;
  }
  h1{
    font-family: arial;
    font-size: 50px;
    color: #ff7200;
  }
</style>
</head>
<body>
<form action="login.html" name="register"
onsubmit="return(validate())" align="center">
<h1>Register</h1>
<label>Name</label>
<input type="text" size="30" placeholder="enter name">
<br><br>
<label>Address</label>
<input type="text"size="30" placeholder="enter adress....."><br><br>
<label>Gender:</label>
<input type="radio" name="gender">male
<input type="radio" name="gender">female<br><br>
<label>E-mail</label>
<input type="mail" placeholder="example@gmail.com"><br><br>
<label>Password:</label>
```

```
<input type="password" placeholder="password">
<br><br>
<label> DOB:</label>
<input type="date"><br><br>
<label>Mobile</label>
<input type="number" value="" size="10"><br><br>
<input type="submit" value="submit">
<input type="reset" value="clear">
</form>
</body>
</html>
```

Output:



The screenshot shows a web browser window with a single tab titled 'register'. The address bar shows the file path 'C:/Users/mahes/Desktop/sublime/web/exp1/register.html'. The page content features a registration form with the following fields and controls:

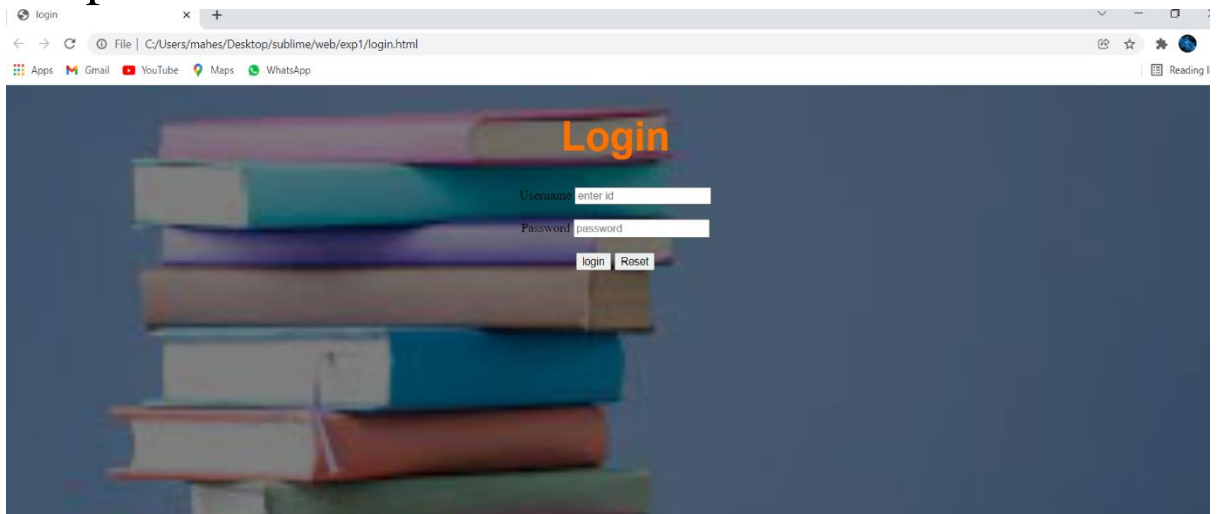
- Name:** A text input field with the placeholder text 'enter name'.
- Address:** A text input field with the placeholder text 'enter adress...'.
- Gender:** Radio buttons for 'male' and 'female'.
- E-mail:** A text input field with the placeholder text 'example@gmail.com'.
- Password:** A text input field with the placeholder text 'password'.
- DOB:** A date picker field with the placeholder text 'dd-mm-yyyy'.
- Mobile:** A text input field.
- Buttons:** Two buttons labeled 'submit' and 'clear'.

The background of the form is a dark blue gradient with a stack of colorful books on the left side.

Login page: (login.html)

```
<!DOCTYPE html>
<head>
  <meta charset="utf-8">
  <title>login</title>
  <style>
    body
  {
width: 100%;
    background: linear-gradient(to top, rgba(0,0,0,0.5)50%,
    rgba(0,0,0,0.5)50%),url(book.jfif);
    background-position: center;
    background-size: cover;
    height: 109vh;
  }
  h1{
    font-family: arial;
    font-size: 50px;
    color: #ff7200;
  }
</style>
</head>
<body align="center">
<form action="catlog.html" >
  <h1>Login</h1>
  <label>Username</label>
  <input type="text" name="name" placeholder="enter
id"><br><br>
  <label>Password</label>
  <input type="password" name="password"
placeholder="password"><br><br>
  <input type="submit" value="login">
  <input type="reset" name="clear">
</body>
</html>
```

Output:

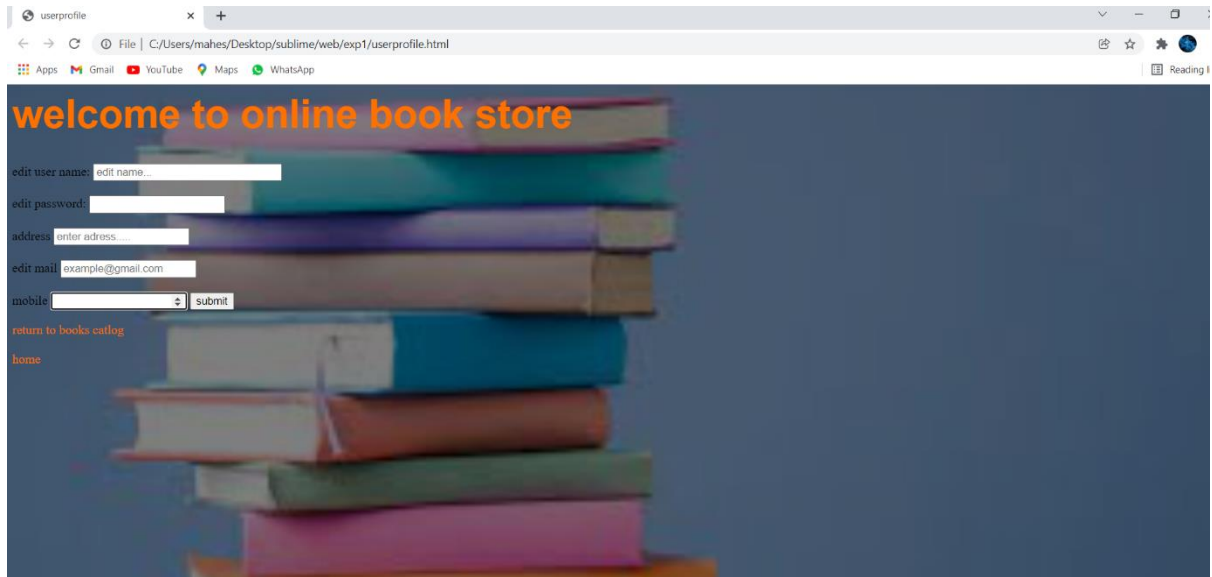


c) User profile page (userprofile.html)

```
<html>
<head>
  <title>userprofile</title>
  <style type="text/css">
    body
    {
      width: 100%;
      background: linear-gradient(to top, rgba(0,0,0,0.5)50%,
      rgba(0,0,0,0.5)50%),url(book.jfif);
      background-position: center;
      background-size: cover;
      height: 109vh;
    }
    h1{
      font-family: arial;
      font-size: 50px;
      color: #ff7200;
    }
    a
    {
      text-decoration: none;
      color: #ff7200;
    }
  </style>
</head>
```

```
<body>
  <h1> welcome to online book store</h1>
  <form >
    <label>edit user name:</label>
    <input type="text" size="30" placeholder="edit
name..."><br><br>
    <label>edit password:</label>
    <input type="password" name=""><br>
    <br>
    <label>address</label>
    <input type="text" placeholder="enter adress....."><br><br>
    <label>edit mail</label>
    <input type="mail" placeholder="example@gmail.com"><br><br>
    <label>mobile</label>
    <input type="number" size="10">
    <input type="submit" value="submit">
  </form>
  <a href="catlog.html">return to books catlog</a>
  <br><br>
  <a href="home.html">home</a>
</body>
</html>
```

Output:



d)Books catalogue (catlog.html)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>catlog</title>
  <style type="text/css">
    a{
      text-decoration: none;
    }
  </style>
</head>
<body>
  <h1>books catlog</h1>
  <div>
    <h3>web technology</h3>
    
    <p align="margin-left"> web technology<br>price:900<br>This is the
one-time reference book, written from the programmer's point of view,
containing hundreds of examples and covering nearly every aspect of various
Web technologies, such as PHP, HTML, XML, AJAX, ASP.NET, Servlets, and
JSP. <br>
<a href="shoppingcart.html">Add to cart</a></p><br><br><br><br><br>
    
    <p align="margin-left"> web programming<br>price:600<br>. It will
help you to master the entire spectrum of Web Technologies by exploring and
implementing various concepts of each Web technology.<br>
<a href="shoppingcart.html">Add to cart</a></p><br><br><br><br><br>
```

</div>

<div >

<h3>c language</h3>

<p align="margin-left">c language
price: 500
The Second Edition of The C Programming Language.
The book enumerates the concepts related to C Programming language, as prescribed by ANSI standard.
Add to cart</p>

<p align="margin-left"> c language
price:600
The Second Edition of The C Programming LanguageAdd to cart</p>

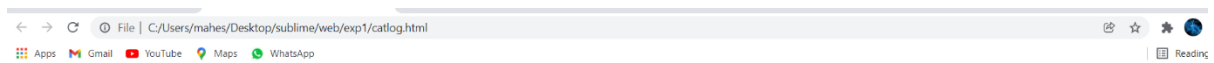
</div>

back

</body>

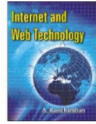
</html>

Output:



books catlog

web technology



web technology

price:900

This is the one-time reference book, written from the programmer's point of view, containing hundreds of examples and covering nearly every aspect of various Web technologies, such as PHP, HTML, XML, AJAX, ASP.NET, Servlets, and JSP.

Add to cart



web programming

price:600

It will help you to master the entire spectrum of Web Technologies by exploring and implementing various concepts of each Web technology.

Add to cart

c language

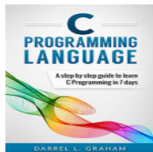


c language

price: 500

The Second Edition of The C Programming Language The book enumerates the concepts related to C Programming language, as prescribed by ANSI standard.

Add to cart



c language

price:600

The Second Edition of The C Programming Language

Add to cart

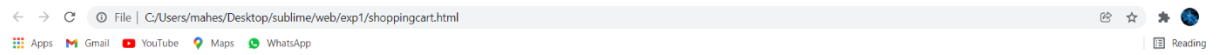
[back](#)

e) Shopping cart (shoppingcart.html)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>shopping cart</title>
</head>
<body>
<h1>cart</h1>
<form name="ShoppingList" action="payment.html"
onsubmit="return(validate())" >

    <div>
        
        <p align="margin-left"> web technology<br>price:900<br><a
href="payment.html">proceed</a></p><br><br><br><br><br><br>
        
        <p align="margin-left"> C language <br>price:600<br><a
href="payment.html">proceed</p><br><br><br><br><br><br>
    </div>
<a href="catlog.html">add books</a>
</form>
</body>
</html>
```

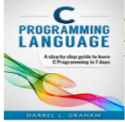
Output:



cart



web technology
price:900
[proceed](#)



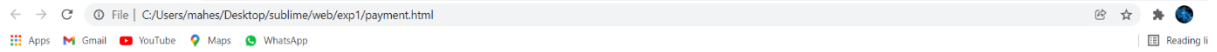
C language
price:600
[proceed](#)

[add books](#)

f) Payment by credit card (payment.html)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>payment</title>
</head>
<body align="center">
  <form action="order.html" onsubmit="return(validate())" >
    <h1 >Payment</h1>
    <label>credit card number:</label>
    <input type="text" name="card" ><br><br>
    <label>cvv:</label>
    <input type="text" name="cvv"><br><br>
    <input type="submit" value="proceed"><br>
  </form>
  <a href="shoppingcart.html">back</a>
</body>
</html>
```

Output:



Payment

credit card number:

cvv:

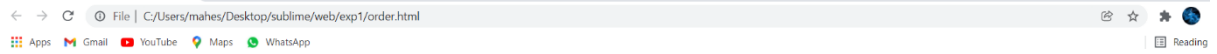
[back](#)

g) Order Confirmation (order.html)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>order conform</title>
<style type="text/css">
  a
  {
    text-decoration: none;
  }
</style>
</head>
<body align="center">
  <h1 style="color: #ff7200">Book Store</h1>
  <b>Your order is sucessfully conformed</b>
  <h2>Thank you visit again</h2><br>
  <a href="catlog.html">Books catlog</a><br>
  <a href="home.html">Signout</a>

</body>
</html>
```

Output:



Book Store

Your order is sucessfully conformed

Thank you visit again

[books catlog](#)
[signout](#)

Experiment-2:-

Create and save an XML document at the server, which contains 10 users information. Write a program which takes User Id as input and returns the user details by taking the user information from the XML document.

Program:-

User.xml

```
<?xml version="1.0"?>
<userlist>
  <user>
    <userid>usr01</userid>
    <username>Gouse</username>
    <address>DSNR</address>
    <phone>8801550101</phone>
    <email>Gouse.sheikh@gmail.com</email>
  </user>
  <user>
    <userid>usr02</userid>
    <username>D Divakar</username>
    <address>Ameerpet</address>
    <phone>9888888888</phone>
    <email>D Divakar@gmail.com</email>
  </user>
  <user>
    <userid>usr03</userid>
    <username>Rajinth</username>
    <address>SR Nagar</address>
    <phone>9866666666</phone>
    <email>Rajinth@yahoo.com</email>
  </user>
  <user>
    <userid>usr04</userid>
    <username>M Vijaya</username>
    <address>DESHMUKHI</address>
    <phone>9835994445</phone>
    <email>M Vijaya@yahoo.com</email>
  </user>
  <user>
    <userid>usr05</userid>
    <username>Kusuma</username>
    <address>KOTI</address>
    <phone>968877555</phone>
    <email>Kusuma@yahoo.com</email>
  </user>
```

```
<user>
  <userid>usr06</userid>
  <username>P Kalpana</username>
  <address>KOTI</address>
  <phone>968875554</phone>
  <email>P Kalpana@yahoo.com</email>
</user>

<user>
  <userid>usr07</userid>
  <username>V Anitha</username>
  <address>KPHB</address>
  <phone>968888554</phone>
  <email>V Anitha@yahoo.com</email>
</user>

<user>
  <userid>usr08</userid>
  <username>M Ramesh</username>
  <address>IBP</address>
  <phone>968878554</phone>
  <email>M Ramesh@yahoo.com</email>
</user>

<user>
  <userid>usr09</userid>
  <username>Raswitha</username>
  <address>DSNGR</address>
  <phone>968899554</phone>
  <email>Raswitha@yahoo.com</email>
</user>

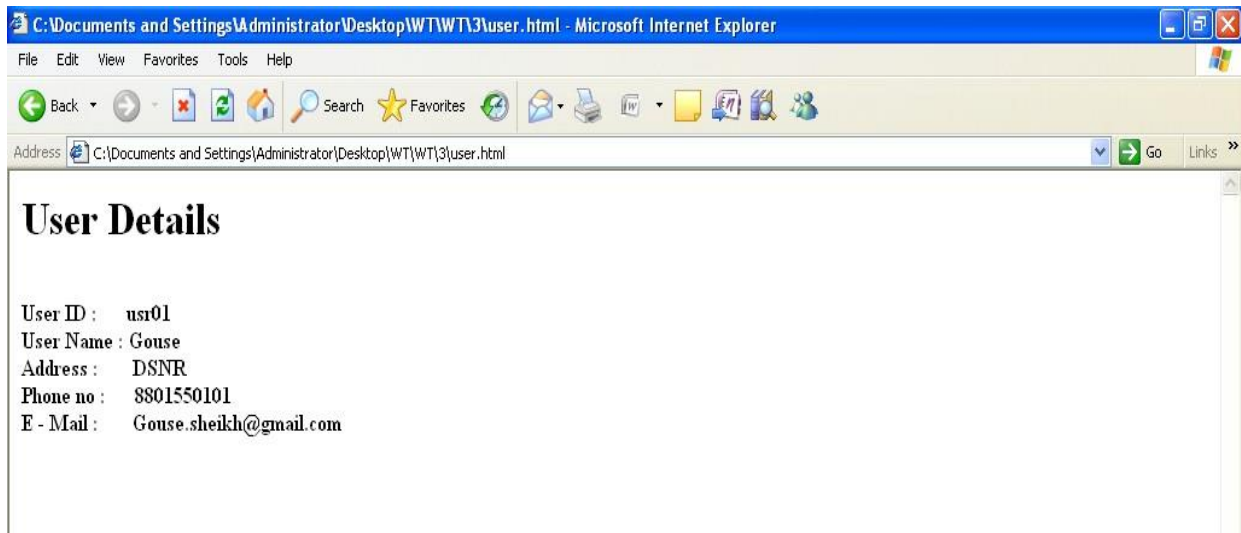
<user>
  <userid>usr10</userid>
  <username>A Prasanna</username>
  <address>KPHB</address>
  <phone>9088008554</phone>
  <email>A Prasanna@yahoo.com</email>
</user>

</userlist>
```



```
<h1><b>User Information</b></h1>
<form name="frm">
User ID : <input type="text" name="uname"><br>
<input type="button" name="btn" value="Submit"
onclick="fncDisplayInfo()">
</form>
</center>
</body>
</html>
```

OUTPUT:



Experiment 3:

Write a PHP script to merge two arrays and sort them as numbers, in descending order.

```
<!DOCTYPE html>

<html>

<body>

<?php

    $a1=array(1,3,15,7,5);

    $a2=array(4,3,20,1,6);

    $num=array_merge($a1,$a2);

    array_multisort($num,SORT_DESC,SORT_NUMERIC);

    print_r($num);

?>

</body>

</html>
```

Output:

```
Array
(
    [0] => 20
    [1] => 15
    [2] => 7
    [3] => 6
    [4] => 5
    [5] => 4
    [6] => 3
    [7] => 3
    [8] => 1
    [9] => 1
)
```


Experiment-4:-

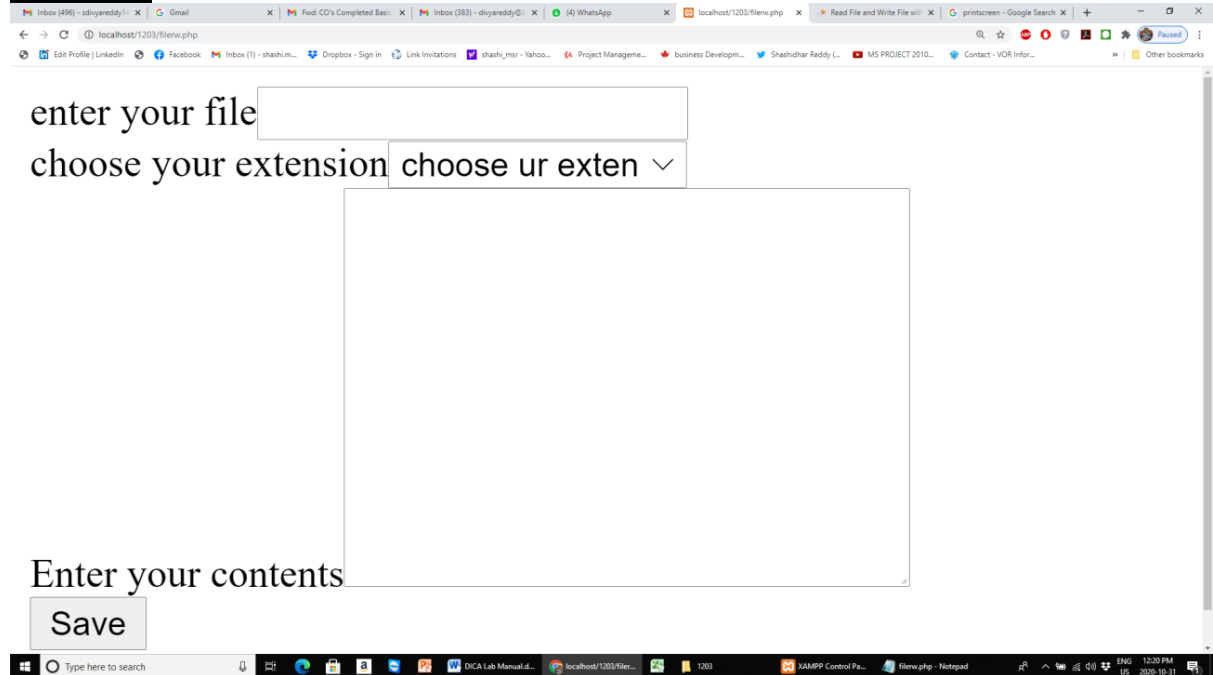
Write a PHP script that reads data from one file and write into another file.

Program:-

```
<?php
if(isset($_POST['save']))
{
$f=$_POST['file'];
$ext=$_POST['ext'];
$data=$_POST['data'];
$file=$f.$ext;
if(file_exists($file))
{
echo "<font color='red'>file already exists</font>";
}
else
{
$fo = fopen($file,"w");
fwrite($fo,$data);
echo "your data is saved";
}
}

?>
<form method="post">
enter your file<input type="text" name="file"/><br/>
choose your extension<select name="ext">
<option value="">choose urexten</option>
<option>.txt</option>
<option>.docs</option>
<option>.pdf</option>
</select><br/>
Enter your contents<textarea rows="10" cols="30" name="data">
<?php echo @$contents ; ?>
</textarea><br/>
<input type="submit" value="Save" name="save"/>
</form>
```

Output:-



The screenshot shows a web browser window with several tabs. The active tab is titled 'localhost/1203/filew.php'. The browser's address bar shows the URL 'localhost/1203/filew.php'. The page content includes the following elements:

- A text input field with the label 'enter your file'.
- A dropdown menu with the label 'choose your extension' and a selected option 'choose ur exten'.
- A large, empty text area for file content.
- A button labeled 'Save'.

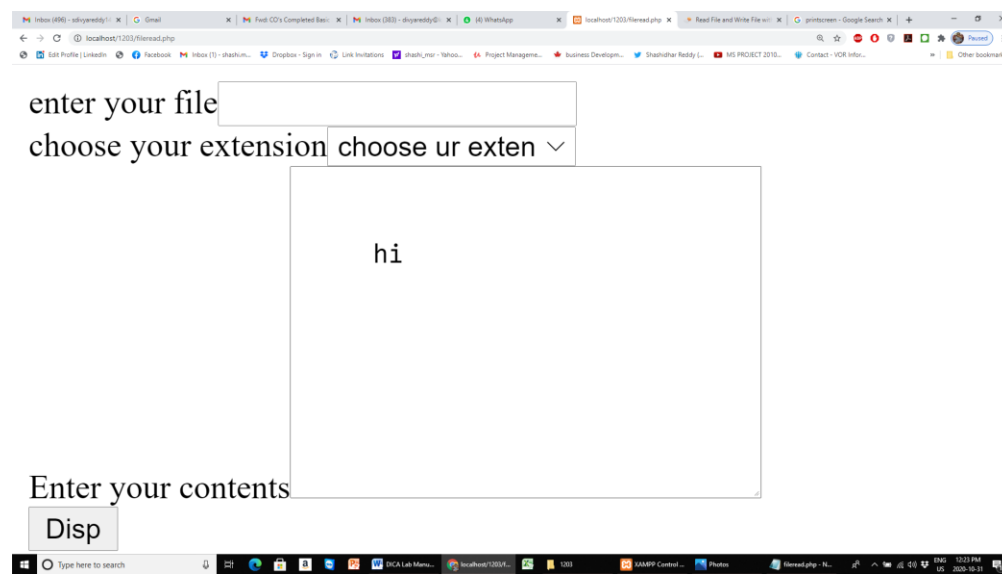
The browser's taskbar at the bottom shows the Windows Start button, a search bar, and several open applications including 'DICA Lab Manual.d...', 'localhost/1203/filew...', '1203', 'XAMPP Control Pa...', and 'filew.php - Notepad'. The system tray on the right shows the date and time as '12:30 PM 2020-10-31'.

```

<?php
if(isset($_POST['disp']))
{
$f=$_POST['file'];
$ext=$_POST['ext'];
$file=$f.$ext;
if(file_exists($file))
{
$fo = fopen($file,"r");
$content = fread($fo,filesize($file));
}
else
{
echo "<font color='red'>file doesn't exists</font>";
}
}
?>
<form method="post">
enter your file<input type="text" name="file"/><br/>
choose your extension<select name="ext">
<option value="">choose urexten</option>
<option>.txt</option>
<option>.docs</option>
<option>.pdf</option>
</select><br/>
Enter your contents<textarea rows="10" cols="30" name="data">
<?php echo @$contents ; ?>
</textarea><br/>
<input type="submit" value="Disp" name="disp"/>
</form>

```

Output:-



Experiment 5:

Write a PHP script to print prime numbers between 1-50.

Program:-

```
<?php
```

```
$count = 0 ;
```

```
$number = 2 ;
```

```
while ($count < 20 )
```

```
{
```

```
$div count=0;
```

```
for ( $i=1;$i<=$number;$i++)
```

```
{
```

```
if (($number%$i)==0)
```

```
{
```

```
$div count++;
```

```
}
```

```
}
```

```
if ($div count<3)
```

```
{
```

```
echo $number." , ";
```

```
$count=$count+1;
```

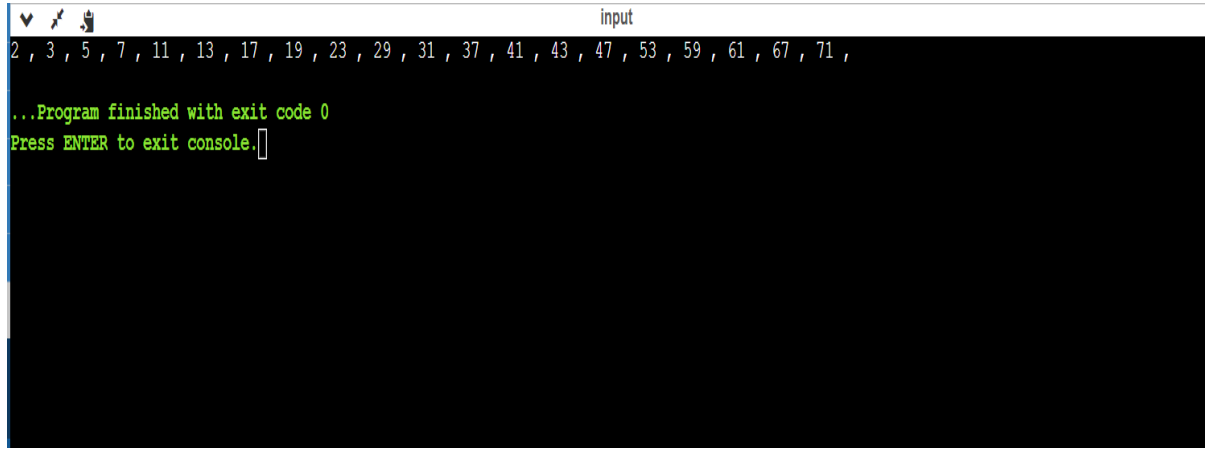
```
}
```

```
$number=$number+1;
```

}

?>

Output:-



The screenshot shows a terminal window with a dark background and light-colored text. The window title is "input". The output text is as follows:

```
2 , 3 , 5 , 7 , 11 , 13 , 17 , 19 , 23 , 29 , 31 , 37 , 41 , 43 , 47 , 53 , 59 , 61 , 67 , 71 ,  
...Program finished with exit code 0  
Press ENTER to exit console.█
```

Experiment-6:-

Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.

Program :-

□ **Home page:**

Main.html:

```
<html>
<frameset rows="25%,*">
<frame src="top.html" name="top" scrolling="no" frameborder="0"> <frameset cols="25%,75%">
<frame src="left.html" name="left" scrolling="no" frameborder="0">
<frame src="right.html" name="right" scrolling="auto" frameborder="0">
</frameset>
</frameset>
</html>
```

Top.html:

```
<html>
<body bgcolor="pink">
<br><br>
<marquee><h1 align="center"><b><u>ONLINE BOOK STORAGE</u></b></h1></marquee> </body>
</html>
```

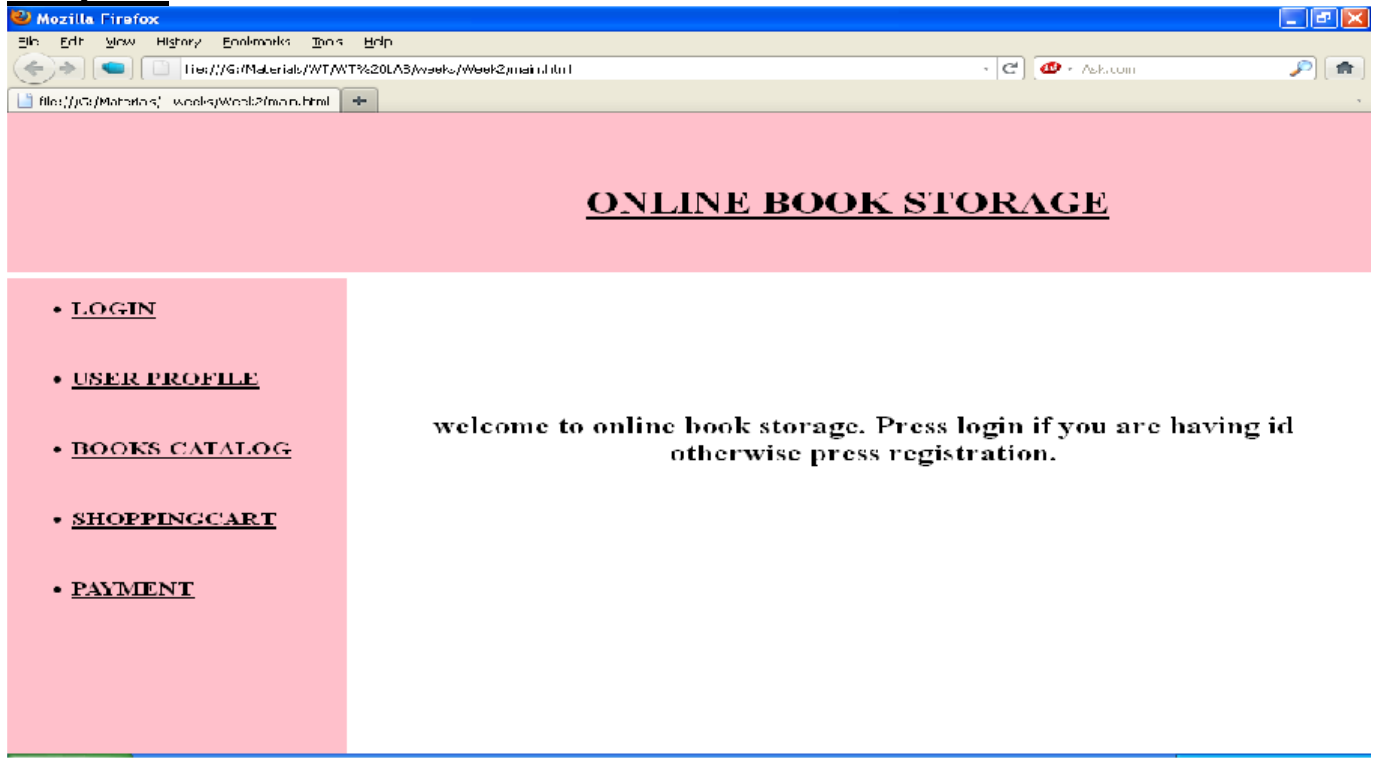
Right.html:

```
<html>
<body>
<br><br><br><br><br>
<h2 align="center">
<b><p> welcome to online book storage. Press login if you are having id otherwise press registration.
</p></b></h2>
</body> </html>
```

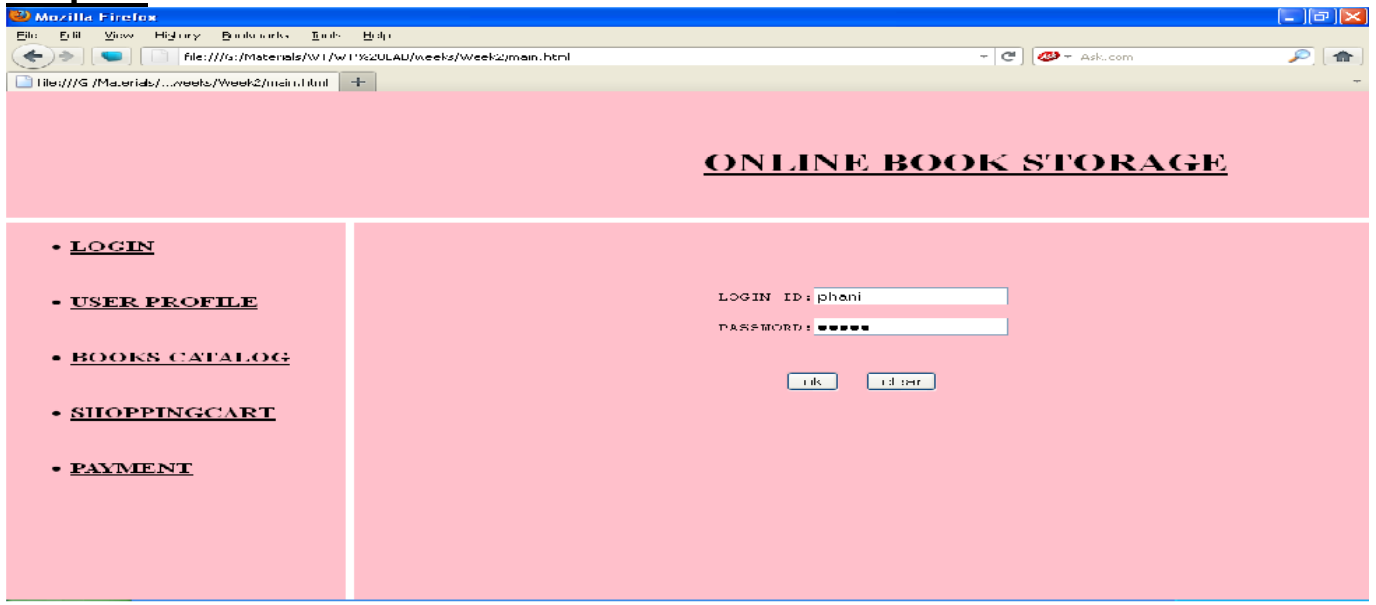
Left.html:

```
<html>
<body bgcolor="pink">
<h3>
<ul>
<li><a href="login.html" target="right"><font color="black"> LOGIN</font></a></li><br><br>
<li><a href="profile.html" target="right"><font color="black"> USER PROFILE</font></a></li><br><br>
<li><a href="catalog.html" target="right"><font color="black"> BOOKS
CATALOG</font></a></li><br><br>
<li><a href="scart.html" target="right"><font color="black"> SHOPPINGCART</font></a></li><br><br>
<li><a href="payment.html" target="right"><font color="black"> PAYMENT</font></a></li><br><br>
<br><br>
</ul>
</body>
</html>
```


Output:-



Output:-



• User profile page

Profile.html:

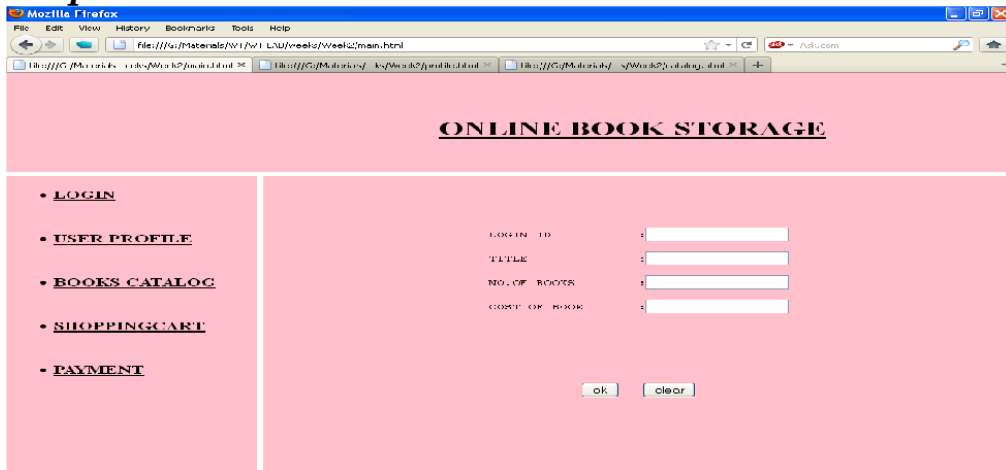
```
<html>
<body bgcolor="pink"><br><br>
<script type="text/javascript">
function validate()
{
var flag=1;
if(document.myform.name.value=="||
document.myform.addr.value=="||
document.myform.phno.value=="||
document.myform.id.value=="||
document.myform.pwd.value=="")
{
alert("Enter all the details");
flag=0;
}
var str=document.myform.phno.value;
var x=new RegExp("\\d","g");
if(!(str.match(x)))
{
if(!(str.length==10))
flag=0;
}
var str1=document.myform.id.value;
var x1=new RegExp("[A-Z][a-zA-Z]+","g");
if(!(str1.match(x1)))
{
flag=0;
alert("Invalid UserID");
}
var str1=document.myform.pwd.value;
var x1=new RegExp("[A-Z][a-zA-Z]+","g");
if(!(str1.match(x1)))
{
flag=0;
alert("Invalid password");
}
if(flag==1)
{
alert("VALID INPUT");
window.self.location.href="login.html";
}
else
{
alert("INVALID INPUT");
document.myform.focus();
}
}
</script>
<form name="myform">
<div align="center"><pre>
NAME :<input type="text" name="name"><br>
ADDRESS :<input type="text" name="addr"><br>
CONTACT NUMBER:<input type="text" name="phno"><br>
```


□ Books catalog:

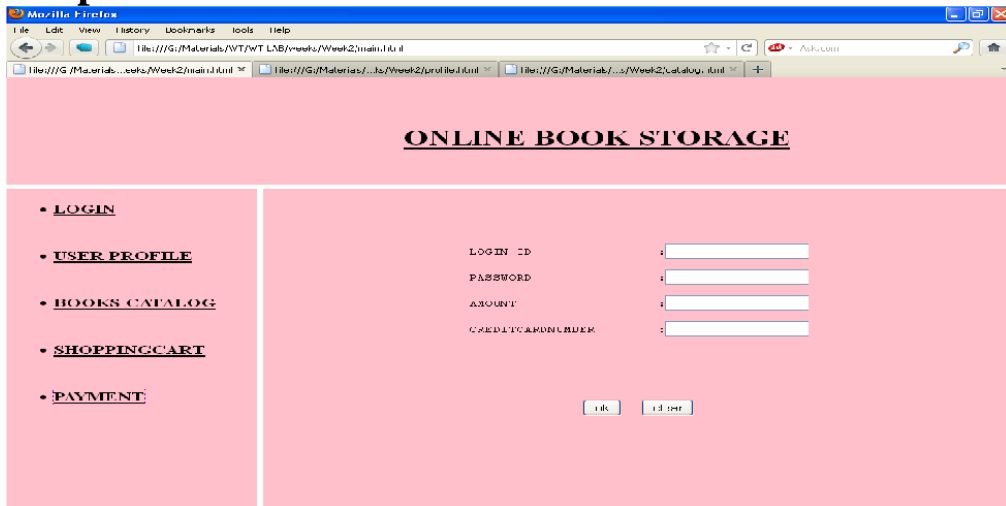
Scart.html:

```
<html>
<body bgcolor="pink"><br><br><br>
<script language="javascript">
function validate()
{
var flag=1;
if(document.myform.title.value=="")
{
flag=0;
}
str=document.myform.title.value;
if(str=="c"||str=="C")
{
document.myform.t1.value="C";
document.myform.t2.value=444;
}
else if(str=="jsp"||str=="JSP")
{
document.myform.t1.value="JSP";
document.myform.t2.value=555;
}
}
else
{
flag=0;
}
}
```


Output:-



Output:-

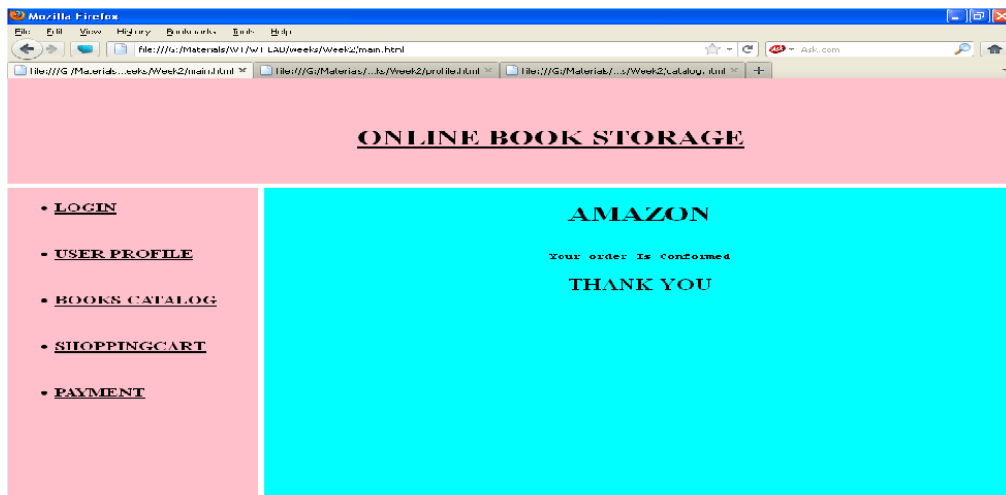


□ Order Conformation □

Order.html:

```
<html>
<head><title>order conformation</title></head>
<body bgcolor="cyan">
<center>
<h1><b>AMAZON</b></h1>
<pre><strong>
<b>Your order Is Conformed
</strong></pre>
<h2><b>THANK YOU</b></h2>
</center>
</body>
</html>
```

Output:-



7) Write a PHP script to: a. Find the length of a string. b. Count no of words in a string. c. Reverse a string. d. Search for a specific string.

```
<html>
<body>

<?php
echo strlen("Hello world!");
echo "<br>";
echo str_word_count("Hello world!");
echo "<br>";
echo strrev("Hello world!");
echo "<br>";
echo strpos("Hello world!", "world");

?>

</body>
</html>
```

Output:

```
12
2
!dlrow olleH
6
```

8. Install TOMCAT web server. Convert the static web pages of assignments 2 into dynamic web

pages using servlets and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart.

Program:-

Web.xml

```
<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE web-app
PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
<display-name>Servlet 2.4 Examples</display-name>
<description>
Servlet 2.4 Examples.
</description>
<servlet>
<servlet-name>reg</servlet-name>
<servlet-class>reg</servlet-class>
</servlet>
<servlet>
<servlet-name>login</servlet-name>
<servlet-class>login</servlet-class>
</servlet>
<servlet>
<servlet-name>profile</servlet-name>
<servlet-class>profile</servlet-class>
</servlet>
<servlet>
<servlet-name>catalog</servlet-name>
<servlet-class>catalog</servlet-class>

<servlet-mapping>
<servlet-name>order</servlet-name>
<url-pattern>/order</url-pattern>
</servlet-mapping>
<servlet-mapping>
<servlet-name>order</servlet-name>
<servlet-class>order</servlet-class>
</servlet-mapping>
<servlet-mapping>
<servlet-name>catalog</servlet-name>
<url-pattern>/catalog</url-pattern>
</servlet-mapping>
<servlet-mapping>
<servlet-name>profile</servlet-name>
<url-pattern>/profile</url-pattern>
</servlet-mapping>
<servlet-mapping>
<servlet-name>login</servlet-name>
<url-pattern>/login</url-pattern>
</servlet-mapping>
<servlet-mapping>
<servlet-name>reg</servlet-name>
```

```
<url-pattern>reg</url-pattern>  
</servlet-mapping>  
</web-app>
```

Output:-

Main.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<body bgcolor="pink">
<br /><br /><br /><br /><br />
<h1 align="center"><U>ONLINE BOOK STORAGE</U></h1><br /><br /><br />
<h2 align="center"><pre>
<b>Welcome to online book storage. Press LOGIN if you are having id otherwise press
REGISTRATION
</b></pre></h2>
<br /><br /><pre>
<div align="center"><a href="/tr/login.html">LOGIN</a><a href="/tr/reg.html">
REGISTRATION</a></div></pre>
</body>
</html>
```

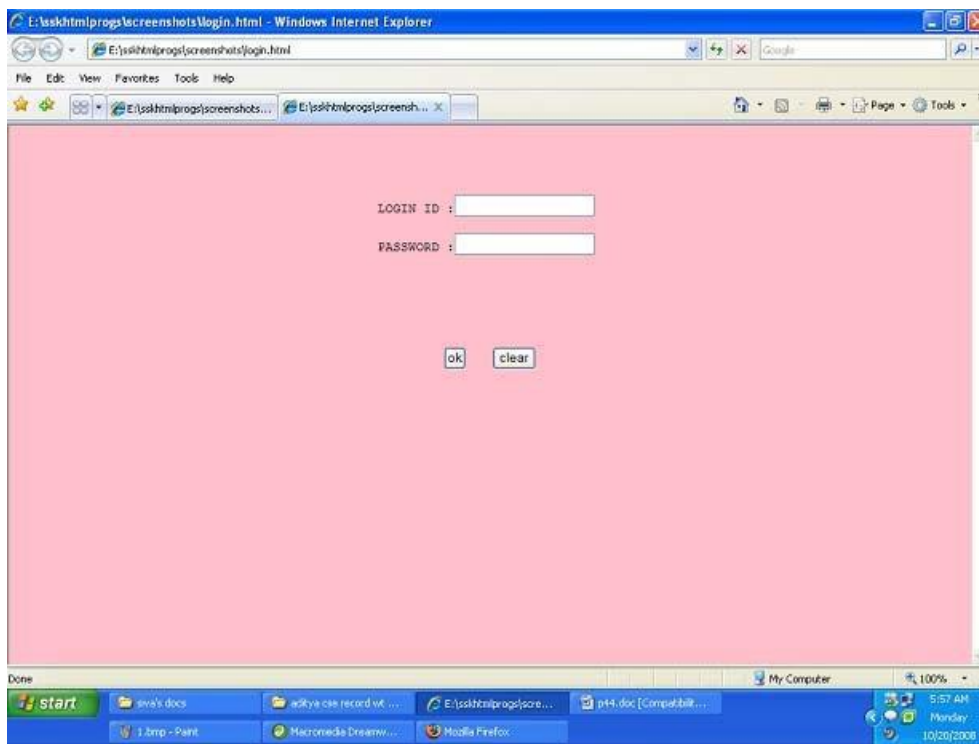
Output:-



Login.html

```
<html>
<body bgcolor="pink"><br /><br /><br />
<form name="myform" method="post" action="/tr/login">
<div align="center"><pre>
LOGIN ID :<input type="text" name="id" /><br />
PASSWORD :<input type="password" name="pwd" /></pre><br /><br />
</div>
<br /><br />
<div align="center">
<input type="submit" value="ok" onclick="validate()"
/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="reset" value="clear" />
</div>
</form>
</body>
</html>
```

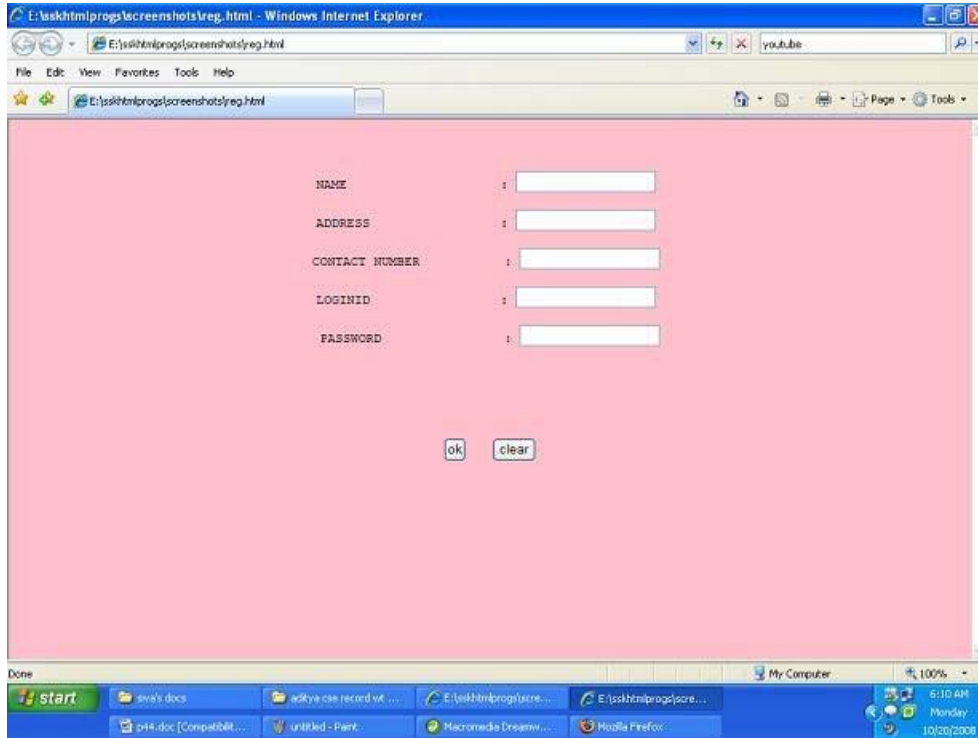
Output:-



Reg.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<body bgcolor="pink"><br /><br />
<form name="myform" method="post" action="/tr/reg">
<div align="center"><pre>
NAME :<input type="text" name="name" /><br/>
ADDRESS :<input type="text" name="addr" /><br /> CONTACTNUMBER :<input type="text"
name="phno" /><br /> LOGINID :<input type="text" name="id" /><br/>
PASSWORD :<input type="password" name="pwd" /></pre><br /><br/>
</div>
<br /><br />
<div align="center">
<input type="submit" value="ok" onclick="validate()"
/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="reset" value="clear" />
</div>
</form>
</body>
</html>
```

Output:-



Login.java

```
import java.sql.*;
import java.io.*;
import java.util.*;
import
javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse
resp) throws ServletException,IOException
{ PrintWriter
pw=resp.getWriter();
pw.println("<html><body bgcolor=\"pink\"");
Stringid=req.getParameter("id");
String
pwd=req.getParameter("pwd"); try
{ Driver
d=neworacle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger
")
;
Statement stmt=con.createStatement();
String sqlstmt="select id,password from
login";
ResultSets=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next(
))
{
if(id.equal(rs.getString(1))&&pwd.equals(rs.getString(2)))
{
flag=1;
}
}
if(flag==0)
{
}
else
{
pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
pw.println("<a href=\"/tr/login.html\">press LOGIN to RETRY</a>");
pw.println("VALID LOGIN ID<br><br>");
pw.println("<h3><ul>");
pw.println("<li><a href=\"profile.html\"><fontcolor=\"black\">USER PROFILE</font>
</a></li><br><br>");
pw.println("<li><a href=\"catalog.html\"><fontcolor=\"black\">BOO
```

```

KS CATALOG</font></a></li><br><br>");
pw.println("<li><a href=\"order.html\"><fontcolor=\"black\">OR
DER CONFIRMATION</font> </a></li><br><br>");
}
pw.println("</body></html>");
}
catch(Exception e)
{ resp.sendError(500,e.toString());
}
}

```

Reg.html

```

import java.sql.*;
import java.io.*;
import java.util.*;
import
javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse
resp) throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body
bgcolor=\"pink\""); String
name=req.getParameter("name");
String addr=req.getParameter("addr");
String phno=req.getParameter("phno");
Stringid=req.getParameter("id");
String
pwd=req.getParameter("pwd"); int
no=Integer.parseInt(phno);
try
{
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger
");
;
Statement stmt=con.createStatement();
String sqlstmt="select id,password from
login";
ResultSetrs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next(
))
{

```

```

if(id.equal(rs.getString(1))&&pwd.equals(rs.getString(2)))
{
flag=1;
} }
if(flag==1)
{
pw.println("SORRY INVALID ID ALREADY EXISTS TRY AGAIN WITH NEW
ID<br><br>");
pw.println("<a href='/tr/reg.html'>press REGISTER to RETRY</a>");
}
else
{
Statement
stmt1=con.createStatement();
stmt1.executeUpdate("insertintologin
values("+names+","+addr+","+no+","+id+","+pwd+)");
pw.println("YOUR DETAILS
ARE ENTERED<br><br>");
pw.println("<a href='/tr/login.html'>press LOGIN to login</a>");
}
pw.println("</body></html>");
}
catch(Exception e)
{ resp.sendError(500,e.toString());
} } }

```


Catlog.java

```
import java.sql.*;
import java.io.*;
import java.util.*;
import
javax.servlet.*;
import javax.servlet.http.*;

public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse
resp) throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body
bgcolor=\"pink\""); String
title=req.getParameter("title");
try
{
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger
");
;
Statement stmt=con.createStatement();
String sqlstmt="select id,password from
login";
ResultSets=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next(
))
{
pw.println(",div align=\"center\">");
pw.println("TITLE
:"+rs.getString(1)+"<br>
"); pw.println("AUTHOR :"+rs.getString(2)+"<br>");
pw.println("VERSION :"+rs.getString(3)+"<br>");
pw.println("PUBLISHER
:"+rs.getString(4)+"<br>
"); pw.println("COST
:"+rs.getString(5)+"<br>
"); pw.println("</div>");
flag=1;
}
if(flag==0)
{
pw.println("SORRY INVALID TITLE TRY AGAIN <br><br>");
pw.println("<a href=\"/tr/catalog.html\">press HERE to RETRY</a>");
```

```
}  
pw.println("</body></html>");  
}  
catch(Exception e)  
{  
resp.sendError(500,e.toString());  
}  
  
}  
  
}
```

Profile.java

```
import java.sql.*;
import java.io.*;
import java.util.*;
import
javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse
resp) throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body
bgcolor=\"pink\""); String
id=req.getParameter("id");
try
{
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:ora
cle:thin:
@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from login where
id="+id+"";
ResultSets=stmt.executeQuery(sqlstmt);

int flag=0;
pw.println("<br><br><br>");
while(rs.next())
{
pw.println("<div align=\"center\">");
pw.println("NAME
:"+rs.getString(1)+"<br>");
);
pw.println("ADDRESS:"+rs.getString(2)+"<br
>");
pw.println("PHONENO
:"+rs.getString(3)+"<br>");
); pw.println("</div>");
flag=1;
}
if(flag==0)
{
pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
pw.println("<a href=\"/tr/profile.html\">press HERE to RETRY</a>");
}
pw.println("</body></html>");
```

```

}
catch(Exception e)
{
resp.sendError(500,e.toString());
}
}
}
}

```

Order.java

```

import java.sql.*;
import java.io.*;
import java.util.*;
import
javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse
resp) throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body
bgcolor=\"pink\"");
Stringid=req.getParameter("id");
String
pwd=req.getParameter("pwd");
String
title=req.getParameter("title");
String
count1=req.getParameter("no");
String
date=req.getParameter("date");
String
cno=req.getParameter("cno");
intcount=Integer.parseInt(count1);
try
{
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "scott", "tiger
")
;
Statement stmt=con.createStatement();
String sqlstmt="select id,password from

login";
ResultSets=stmt.executeQuery(sqlstmt);
int

```

```

flag=0,amount,x;
while(rs.next())
{
if(id.equals(rs.getString(1))&&pwd.equals(rs.getString(2)))
{
flag=1;
}
}
if(flag==0)
{
pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
pw.println("<a href=\\\"/tr/order.html\\\">press HERE to RETRY</a>");
}
else
{
Statement stmt2=con.createStatement();
String s="select cost from book where title="+title+""; ResultSet
rs1=stmt2.executeQuery(s);
int flag1=0; while(rs1.next())
{

flag1=1;
x=Integer.parseInt(rs1.getString(
1));
amount=count*x;
pw.println("AMOUNT :"+amount+"<br><br><br><br>");
Statement stmt1=con.createStatement();
stmt1.executeUpdate("insertintodetailsvalues(""+id+",""+title
+""+amount+",""+cno+"""); pw.println("YOUR ORDER has
taken<br>");
}
if(flag1==0)
{
pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
pw.println("<a href=\\\"/tr/order.html\\\">press HERE to RETRY</a>");
}
}
pw.println("</body></html>");
con.close();
}

catch(Exception e)
{
resp.sendError(500,e.toString());
}
}

```


Experiment-9:-

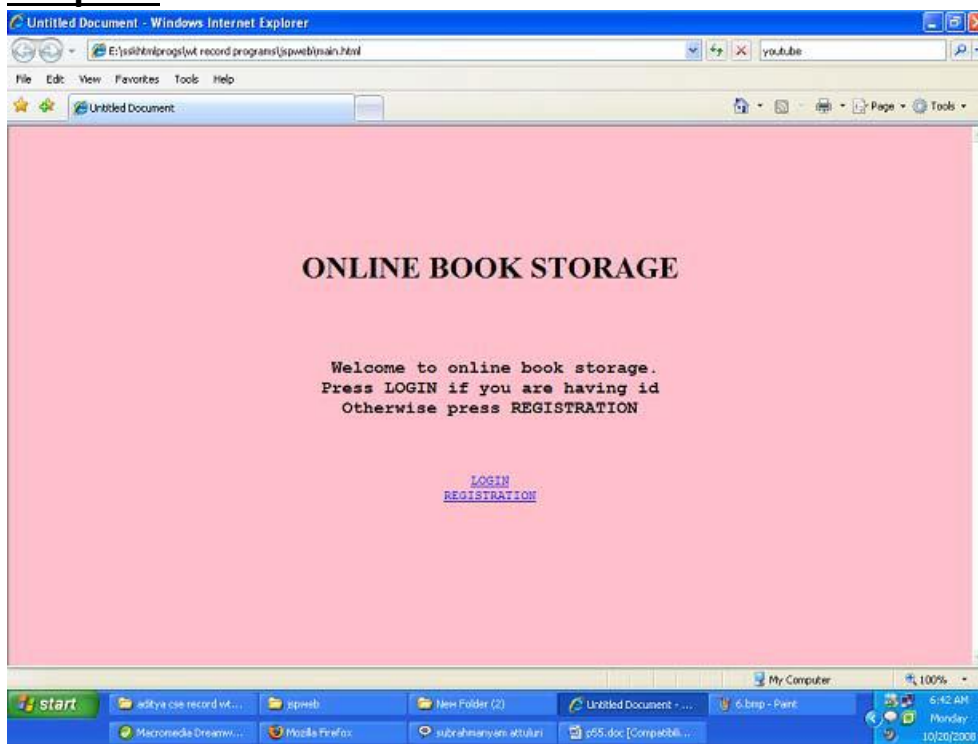
Redo the previous task using JSP by converting the static web pages of assignments 2 into dynamic web pages. Create a database with user information and books information and books information. The books catalogue should be dynamically loaded from the database. Follow the MVC architecture while doing the website.

Program:-

Main.html:

```
<html>
<body bgcolor="pink">
<br><br><br><br><br><br>
<h1 align="center"><u>ONLINE BOOK STORAGE</u></h1><br><br><br>
<h2 align="center"><PRE>
<b> Welcome to online book storage.
Press LOGIN if you are having id
Otherwise press REGISTRATION
</b></PRE></h2>
<br><br><pre>
<div align="center"><a href="/tr/login.html">LOGIN</a>
href="/tr/login.html">REGISTRATION</a></div></pre>
</body></html>
```

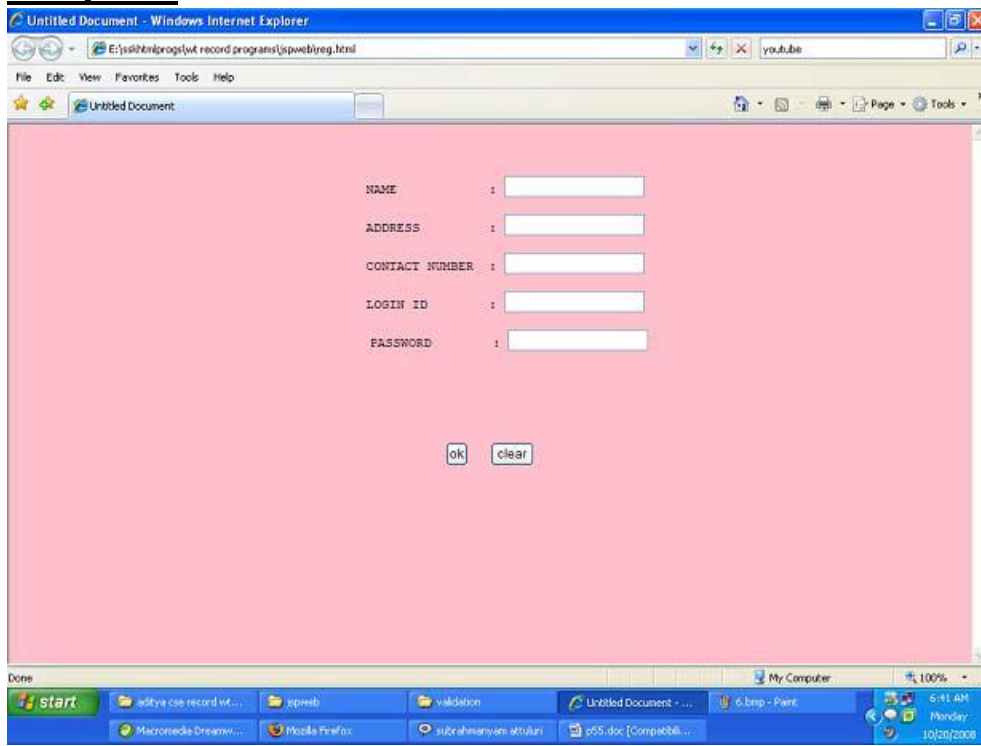
Output:-



Reg.html:

```
<html>
<body bgcolor="pink"><br><br>
<form name="myform" method="post" action="/tr1/reg.jsp">
<div align="center"><pre>
NAME :<input type="text" name="name"><br>
ADDRESS :<input type="text" name="addr"><br>
CONTACT NUMBER : <input type="text" name="phno"><br>
LOGIN ID : <input type="text" name="id"><br>
PASSWORD : <input type="password" name="pwd"></pre><br><br>
</div>
<br><br>
<div align="center">
<input type="submit" value="ok"
onClick="validate()">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="reset"
value="clear">
</form>
</body>
</html>
```

Output:-



Login.jsp:

```

%@page import="java.sql.*"%
%@page import="java.io.*"%
<%
out.println("<html><body bgcolor=\"pink\">");
String id=request.getParameter("id");
String pwd=request.getParameter("pwd");
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.registerDriver(d);
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select id,password from login where id="+id+" and password="+pwd+"";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{
flag=1;
}
if(flag==0)
{
out.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
out.println(" <a href=\"/tr1/login.html\">press LOGIN to RETRY</a>");
}
else
{
out.println("VALID LOGIN ID<br><br>");
out.println("<h3><ul>");
out.println("<li><a href=\"profile.html\"><fontcolor=\"black\">USER
PROFILE</font></a></li><br><br>");
out.println("<li><a href=\"catalog.html\"><fontcolor=\"black\">BOOKS
CATALOG</font></a></li><br><br>");
out.println("<li><a href=\"order.html\"><fontcolor=\"black\">ORDER
CONFIRMATION</font></a></li><br><br>");
out.println("</ul>");
}
out.println("<body></html>");
%>
```

Reg.jsp:

```
%@page import="java.sql.*"%
```

```
%@page import="java.io.*"%
```

```
<%
```

```
out.println("<html><body bgcolor=\"pink\">");
```

```
String name=request.getParameter("name");
```

```
String addr=request.getParameter("addr");
```

```
String phno=request.getParameter("phno");
```

```
String id=request.getParameter("id");
```

```
String pwd=request.getParameter("pwd");
```

```
int no=Integer.parseInt(phno);
```

```
Driver d=new oracle.jdbc.driver.OracleDriver();
```

```
DriverManager.registerDriver(d);
```

```
Connection con=
```

```
DriverManager.getConnection ("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
```

```
Statement stmt=con.createStatement();
```

```
String sqlstmt="select id from login";
```

```
ResultSet rs=stmt.executeQuery(sqlstmt);
```

```
int flag=0;
```

```
while(rs.next())
```

```
{
```

```
if(id.equals(rs.getString(1)))
```

```
{
```

```
flag=1;
```

```
}
```

```
}
```

```
if(flag==1)
```

```
{
```

```
out.println("SORRY LOGIN ID ALREADY EXISTS TRY AGAIN WITH NEW ID <br><br>");
```

```
out.println("<a href=\"/tr1/reg.html\">press REGISTER to RETRY</a>");
```

```
}
```

```
else
```

```
{
```

```
Statement stmt1=con.createStatement ();
```

```
stmt1.executeUpdate ("insert into login values
```

```
("+name+", "+addr+", "+no+", "+id+", "+pwd+");
```

```
out.println ("YOU DETAILS ARE ENTERED <br><br>");
```

```
out.println ("<a href =\"/tr1/login.html\">press LOGIN to login</a>");
```

```
}
```

```
out.println ("</body></html>");
```

```
%>
```

Profile.jsp:

```
<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
out.println ("<html><body bgcolor=\\"pink\\">");
String id=request.getParameter("id");
Driver d=new oracle.jdbc.driver.OracleDriver();
DriverManager.regiserDriver(d);
Connection con=
DriverManager.getConnection ("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement ();
String sqlstmt="select * from login where id="+id+"";
ResultSet rs=stmt.executeQuery (sqlstmt);
int flag=0;
while(rs.next())
{
out.println ("<div align=\\"center\\">");
out.println ("NAME :"+rs.getString(1)+"<br>");
out.println ("ADDRESS :"+rs.getString(2)+"<br>");
out.println ("PHONE NO :"+rs.getString(3)+"<br>");
out.println ("</div>");
flag=1;
}
if(flag==0)
{
out.println("SORRY INVALID ID TRY AGAIN ID <br><br>");
out.println("<a href=\\"/tr1/profile.html\\">press HERE to RETRY </a>");
}
out.println ("</body></html>");
%>
```

Catalog.jsp:

```
<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
out.println ("<html><body bgcolor=\\"pink\\">");
String title=request.getParameter ("title");
Driver d=new oracle.jdbc.driver.OracleDriver ();
DriverManager.regiserDriver (d);
Connection con=
DriverManager.getConnection ("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement ();
String sqlstmt="select * from book where title="+title+"";
ResultSet rs=stmt.executeQuery (sqlstmt);
int flag=0;
while(rs.next())
{
out.println ("<div align=\\"center\\">");
out.println ("TITLE :"+rs.getString(1)+"<br>");
out.println ("AUTHOR :"+rs.getString(2)+"<br>");
out.println ("VERSION:"+rs.getString(3)+"<br>");
out.println ("PUBLISHER :"+rs.getString(4)+"<br>");
out.println ("COST :"+rs.getString(5)+"<br>");
out.println ("</div>");
flag=1;
}
if(flag==0)
{
out.println("SORRY INVALID ID TRY AGAIN ID <br><br>");
out.println("<a href=\\"/tr1/catalog.html\\">press HERE to RETRY </a>");
}
out.println ("</body></html>");
%>
```


Order.jsp:

```
<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
out.println ("<html><body bgcolor=\\"pink\\">");
String id=request.getParameter ("id");
String pwd=request.getParameter ("pwd");
String title=request.getParameter ("title");
String count1=request.getParameter ("no");
String date=request.getParameter ("date");
String cno=request.getParameter ("cno");
int count=Integer.parseInt(count1);
Driver d=new oracle.jdbc.driver.OracleDriver ();
DriverManager.regiserDriver (d);
Connection con=
DriverManager.getConnection ("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement ();
String sqlstmt="select id, password from login";
ResultSet rs=stmt.executeQuery (sqlstmt);
int flag=0,amount,x;
while(rs.next())
{
if(id.equals(rs.getString(1))&& pwd.equals(rs.getString(2)))
{
flag=1;
}
}
if(flag==0)
{
out.println("SORRY INVALID ID TRY AGAIN ID <br><br>");
out.println("<a href='\"/tr1/order.html\"'>press HERE to RETRY </a>");
}
else
{
Statement stmt2=con.createStatement();
String s="select cost from book where title="+title+"";
ResultSet rs1=stmt2.executeQuery(s);
int flag1=0;
while(rs1.next())
{
flag1=1;
x=Integer.parseInt(rs1.getString(1));
amount=count*x;
out.println("AMOUNT :"+amount+"<br><br><br><br>");
Statement stmt1=con.createStatement ();
stmt1.executeUpdate ("insert into details
("+id+", "+title+", "+amount+", "+date+", "+cno+"");
```

```
out.println ("YOU ORDER HAS TAKEN<br>");
}
if(flag1==0)
{
out.println("SORRY INVALID BOOK TRY AGAIN <br><br>");
out.println("<a href=\"/tr1/order.html\">press HERE to RETRY </a>");
}
} out.println ("</body></html>");%>
```

Experiment 10:

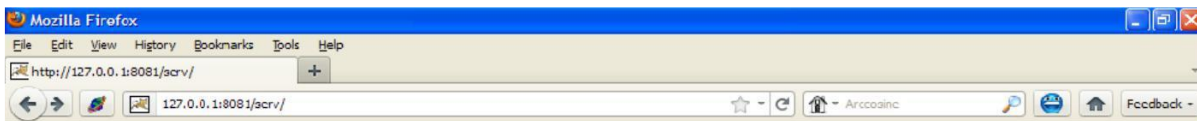
Install a database(Mysql or Oracle). Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form). Practice 'JDBC' connectivity. Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them. Experiment with various SQL queries. Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page .

Program:-

Main.html:

```
<html>
<body>
<br /><br /><br /><br /><br />
<h1 align="center"><U>ONLINE BOOK STORAGE</U></h1><br/><br /><br />
<h2 align="center"><pre>
<b>Welcome to online book storage.
Press LOGIN if you are having id
otherwise press REGISTRATION
</b></pre></h2>
<br /><br /><pre>
<div align="center"><a href="login.html">LOGIN</a> <a href="reg.html">
REGISTRATION</a></div></pre>
</body>
</html>
```

Output:-



ONLINE BOOK STORAGE

Welcome to online book storage.
Press LOGIN if you are having id
otherwise press REGISTRATION

LOGIN
REGISTRATION

Userinfo.html

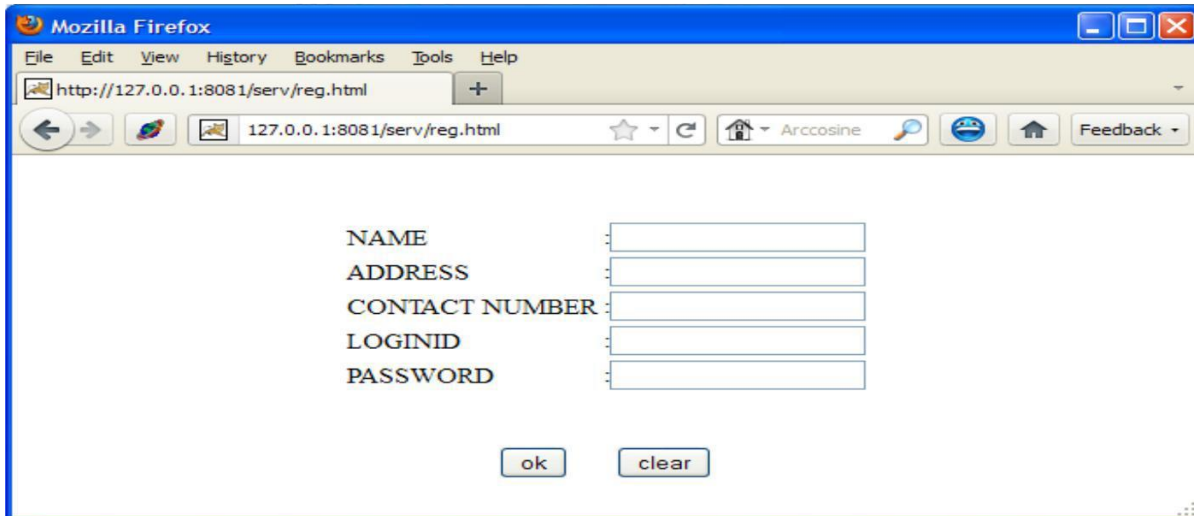
```
<html>
<head>
<title>User Info Entry Form</title>
</head>
<body bgcolor="white">
<form action="userinfo1.jsp" method="post">
<table>
<tr>
<td>Name:</td>
<td><input type="text" name="userName" >
</td>
</tr>
<tr>
<td>Sex:</td>
<td><input type="text" name="sex" >
</td>
<td>(Male or female)</td>
</tr>
<tr>
<td colspan=2><input type="submit"></td>
</tr>
</table>
</form>
</body>
</html>
```

Output:-

Name:

Sex: (Male or female)

Output:-



The screenshot shows a Mozilla Firefox browser window with the following details:

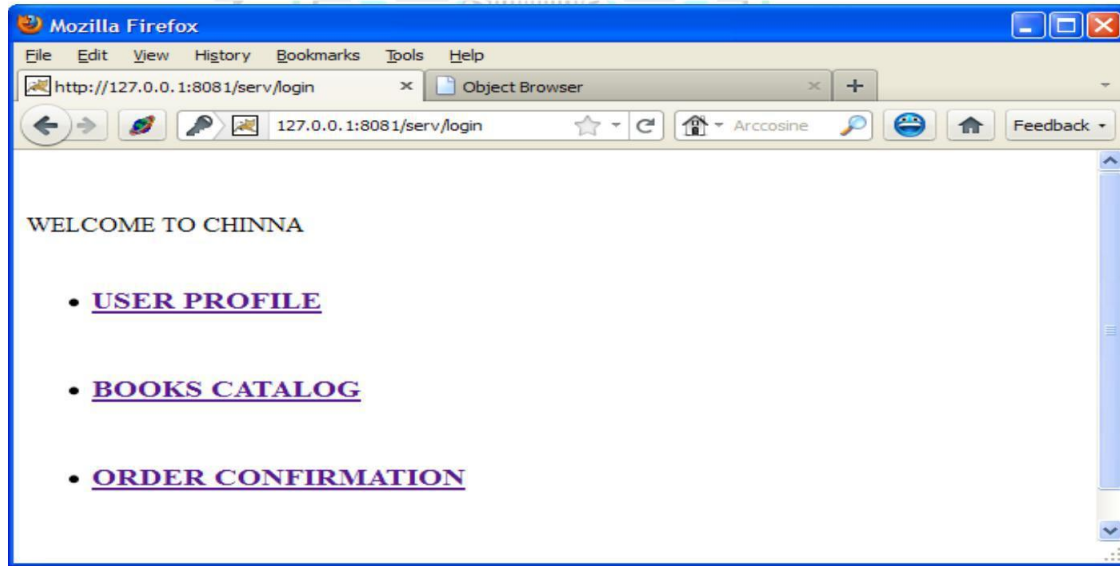
- Browser title: Mozilla Firefox
- Address bar: http://127.0.0.1:8081/serv/reg.html
- Navigation buttons: Back, Forward, Home, Stop, Reload
- Search bar: Arc cosine
- Form fields:
 - NAME:
 - ADDRESS:
 - CONTACT NUMBER:
 - LOGINID:
 - PASSWORD:
- Buttons: ok, clear

login.java

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse resp)
throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body>");
String id=req.getParameter("id");
String pwd=req.getParameter("pwd");
String s1="",s2="";
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:XE","system",
"tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from login";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{
s1=rs.getString(4);
s2=rs.getString(5);
}
if(id.equals(s1)&&pwd.equals(s2))
{
flag=1;
}
if(flag==0)
{
pw.println("<br><br>SORRY INVALID ID TRY AGAIN ID<br><br>"); pw.println("<a
href=\"login.html\">press LOGIN to RETRY</a>");
}
else
{
pw.println("<br><br>WELCOME TO "+id.toUpperCase()+"<br><br>");
pw.println("<h3><ul>");
pw.println("<li><a href=\"profile.html\"><fontcolor=\"black\">
```

```
USER PROFILE</font></a></li><br><br>"); pw.println("<li><a  
href=\"catalog.html\"><fontcolor=\"black\">BOOKS CATALOG</font></a></li><br><br>");  
pw.println("<li><a href=\"order.html\"> <fontcolor=\"black\">ORDER  
CONFIRMATION</font></a></li></ul><br><br>"); }  
pw.println("</body></html>");  
}  
catch(Exception e)  
{  
resp.sendError(500,e.toString());  
}  
}  
}
```

Output:-



reg.java:

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class reg extends HttpServlet
{
public void service(HttpServletRequest req, HttpServletResponse resp)
throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
resp.setContentType("text/html");
pw.println("<html><body>");
String name=req.getParameter("name");
String addr=req.getParameter("addr");
String phno=req.getParameter("phno");
String id1=req.getParameter("id");
String pwd1=req.getParameter("pwd");
try {
Class.forName("oracle.jdbc.driver.OracleDriver");
try {
Connection con=DriverManager.getConnection
{ ("jdbc:oracle:thin:@localhost:1522 :XE", "system", "tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from login";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{
if(id1.equals(rs.getString(4))&&pwd1.equals(rs.getString(5)))
{
flag=1;
}
}
if(flag==1)
{
pw.println("<br><br>SORRY INVALID ID ALREADY EXISTS TRY AGAIN WITH NEW
ID<br><br>");
pw.println("<a href=\"reg.html\">press REGISTER to RETRY</a>");
}
else
{
Statement stmt1=con.createStatement();
stmt1.executeUpdate("insert into login values
("+name+", "+addr+", "+phno+", "+id1+", "+pwd1+"");
}
```

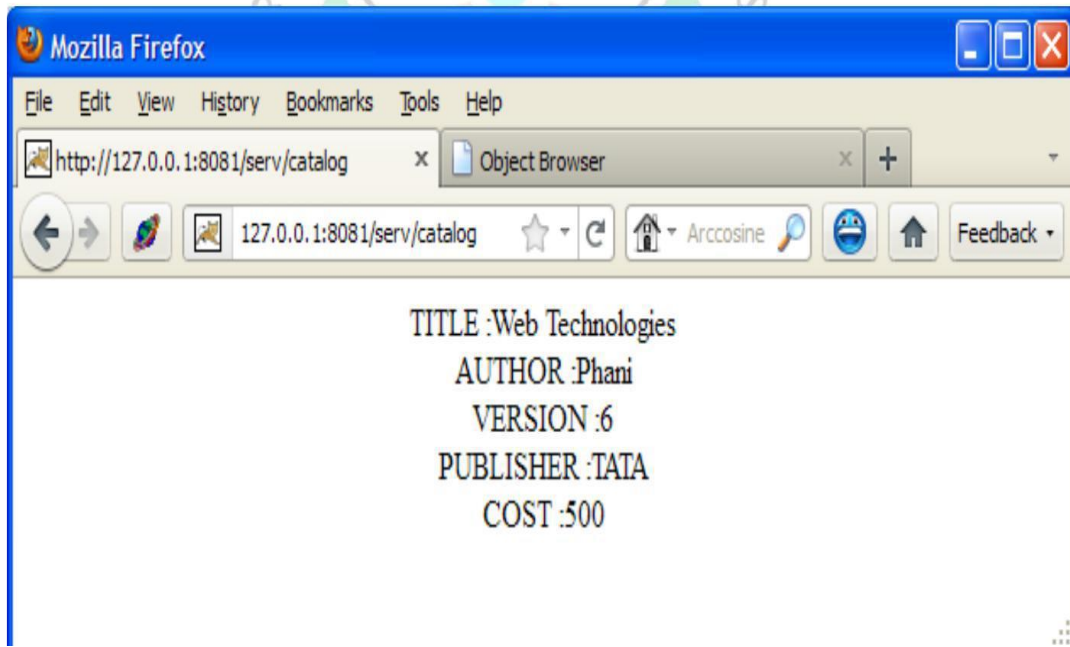
```
pw.println("<br><br>YOUR DETAILS ARE ENTERED<br><br>"); pw.println("<a  
href=\"login.html\">press LOGIN to login</a>"); }  
pw.println("</body></html>");  
}  
catch(Exception e)  
{  
resp.sendError(500,e.toString());  
}  
}  
}
```

Output:-

Catalog.java:

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class catalog extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse resp)
throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body>");
String title=req.getParameter("title");
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:XE","system","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from book where title='"+title+"'";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{
pw.println("<div align=\"center\">");
pw.println("TITLE :"+rs.getString(1)+"<br>");
pw.println("AUTHOR :"+rs.getString(2)+"<br>");
pw.println("VERSION :"+rs.getString(3)+"<br>");
pw.println("PUBLISHER :"+rs.getString(4)+"<br>");
pw.println("COST :"+rs.getString(5)+"<br>");
pw.println("</div>");
flag=1;
}
if(flag==0)
{
pw.println("<br><br>SORRY INVALID TITLE TRY AGAIN <br><br>");
pw.println("<a href=\"catalog.html\">press HERE to RETRY</a>");
}
pw.println("</body></html>");
}
catch(Exception e)
{
resp.sendError(500,e.toString());
}
}
}
```

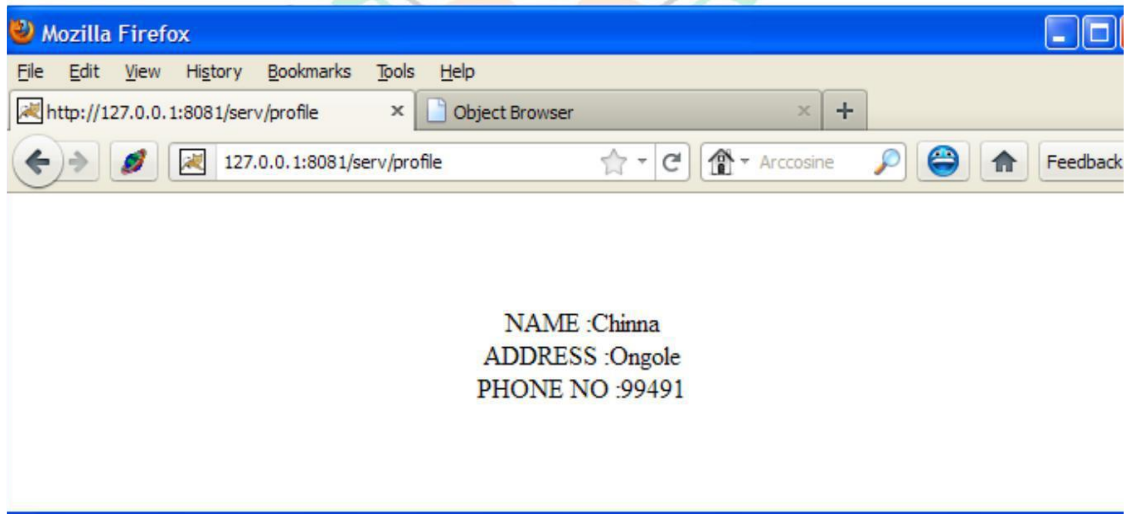
Output:-



profile.java:

```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class profile extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse resp)
throws ServletException,IOException
{
PrintWriter pw=resp.getWriter();
pw.println("<html><body>");
String id=req.getParameter("id");
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:XE","system","tiger"); Statement
stmt=con.createStatement();
String sqlstmt="select * from login where id='"+id+"'"; ResultSet
rs=stmt.executeQuery(sqlstmt);
int flag=0;
pw.println("<br><br><br>");
while(rs.next())
{
pw.println("<div align=\"center\">");
pw.println("NAME :"+rs.getString(1)+"<br>");
pw.println("ADDRESS :"+rs.getString(2)+"<br>");
pw.println("PHONE NO :"+rs.getString(3)+"<br>"); pw.println("</div>");
flag=1;
}
if(flag==0)
{
pw.println("<br><br>SORRY INVALID ID TRY AGAIN ID<br><br>"); pw.println("<a
href=\"profile.html\">press HERE to RETRY</a>"); }
pw.println("</body></html>");
}
catch(Exception e)
{
resp.sendError(500,e.toString());
}
}
}
```

Output:-



Order.java:

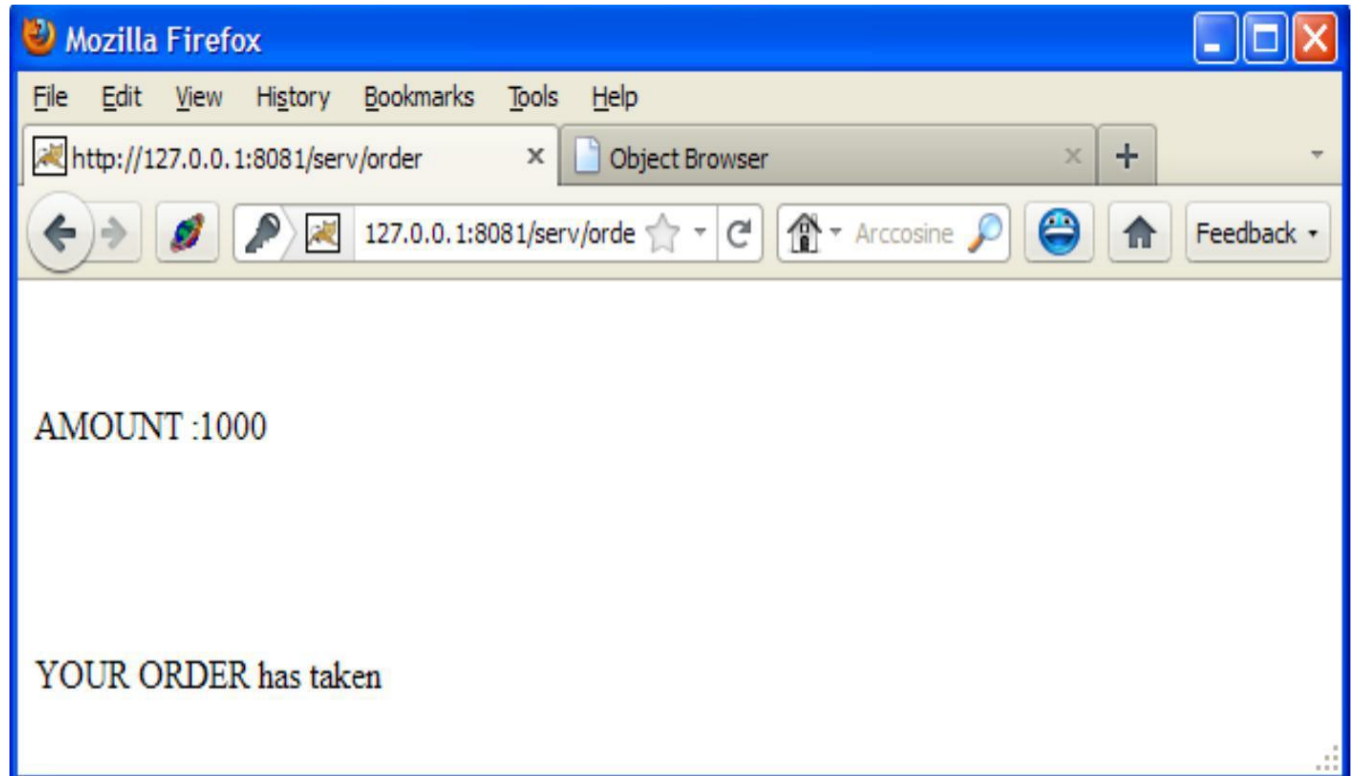
```
import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class order extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse resp)
throws ServletException,IOException
{
int count;
PrintWriter pw=resp.getWriter();
pw.println("<html><body>");
String id=req.getParameter("id");
String pwd=req.getParameter("pwd");
String title=req.getParameter("title");
String count1=req.getParameter("no");
String date=req.getParameter("date");
String cno=req.getParameter("cno");
try
{
count=Integer.parseInt(count1);
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:XE","system","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from login";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0,amount,x;
while(rs.next())
{
if(id.equals(rs.getString(4))&&pwd.equals(rs.getString(5)))
{
flag=1;
}
}
if(flag==0)
{
pw.println("<br><br>SORRY INVALID ID TRY AGAIN ID<br><br>"); pw.println("<a href= \"
order.html \" >press HERE to RETRY</a>");
}
else
{
Statement stmt2=con.createStatement();
```

```

String s="select cost from book where title='"+title+"'"; ResultSet
rs1=stmt2.executeQuery(s);
int flag1=0;
while(rs1.next())
{
flag1=1;
x=Integer.parseInt(rs1.getString(1));
amount=count*x;
pw.println("<br><br>AMOUNT:"+amount+"<br><br><br><br>"); Statement
stmt1=con.createStatement();
stmt1.executeUpdate("insert into details values('"+id+"','"+title+"','"+amount+"','"+cno+"')");
pw.println("<br>YOUR ORDER has taken<br>");
}
if(flag1==0)
{
pw.println("<br><br><br>SORRY INVALID ID TRY AGAIN ID<br><br>");
pw.println("<a href=\"order.html\">press HERE to RETRY</a>");
}
}
pw.println("</body></html>");
con.close();
}
catch(Exception e)
{
resp.sendError(500,e.toString());
}
}
}

```

Output:-



Experiment 11:

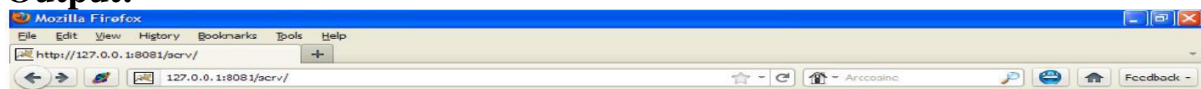
Write a JSP which does the following job: Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database.

Program:-

Main.html:

```
<html>
<body>
<br /><br /><br /><br /><br />
<h1 align="center"><U>ONLINE BOOK STORAGE</U></h1><br /><br /><br />
<h2 align="center"><pre>
<b>Welcome to online book storage.
Press LOGIN if you are having id
otherwise press REGISTRATION
</b></pre></h2>
<br /><br /><pre>
<div align="center"><a href="login.html">LOGIN</a> <a href="reg.html">
REGISTRATION</a></div></pre>
</body>
</html>
```

Output:-



ONLINE BOOK STORAGE

Welcome to online book storage.
Press LOGIN if you are having id
otherwise press REGISTRATION

[LOGIN](#)
[REGISTRATION](#)

Reg.jsp:

```
<% @page import="java.sql.*"%>
<% @page import="java.io.*"%>
<% response.setContentType("text/html"); out.println("<html><body>");
String name=request.getParameter("name"); String addr=request.getParameter("addr"); String
phno=request.getParameter("phno"); String id1=request.getParameter("id"); String
pwd1=request.getParameter("pwd"); int no=Integer.parseInt(phno);
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select id,pwd from login";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{ if(id1.equals(rs.getString(1))&&pwd1.equals(rs.getString(2)))
{flag=1;
}
}
if(flag==1)
{ out.println("<br><br>SORRY INVALID ID ALREADY EXISTS TRY AGAIN WITH NEW
ID<br><br>");
out.println("<a href=\"reg.html\">press REGISTER to RETRY</a>");
}
else
{ Statement stmt1=con.createStatement();
stmt1.executeUpdate("insert into login
values(\""+name+"\",\""+addr+"\",\""+phno+"\",\""+id1+"\",\""+pwd1+"");"); out.println("<br><br>YOUR
DETAILS ARE ENTERED<br><br>"); out.println("<a href=\"login.html\">press LOGIN to
login</a>");
}
out.println("</body></html>");
con.close();
%>
```


Login.jsp:

```
<% @page import="java.sql.*"%>
<% @page import="java.io.*"%>
<html>
<body>
<% String id=request.getParameter("id"); String pwd=request.getParameter("pwd");
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select id,pwd from login";
ResultSet rs=stmt.executeQuery(sqlstmt);
int flag=0;
while(rs.next())
{
if(id.equals(rs.getString(1))&&pwd.equals(rs.getString(2)))
{
flag=1;
}
}
if(flag==0)
{
out.println("<br><br>SORRY INVALID ID TRY AGAIN ID<br><br>"); out.println("<a
href=\"login.html\">press LOGIN to RETRY</a>"); }
else
{out.println("<br><br>VALID LOGIN ID<br><br>"); out.println("WELCOME
<br>To<br>"+id);
}
con.close();
%>
</body>
</html>
```

Experiment 12:

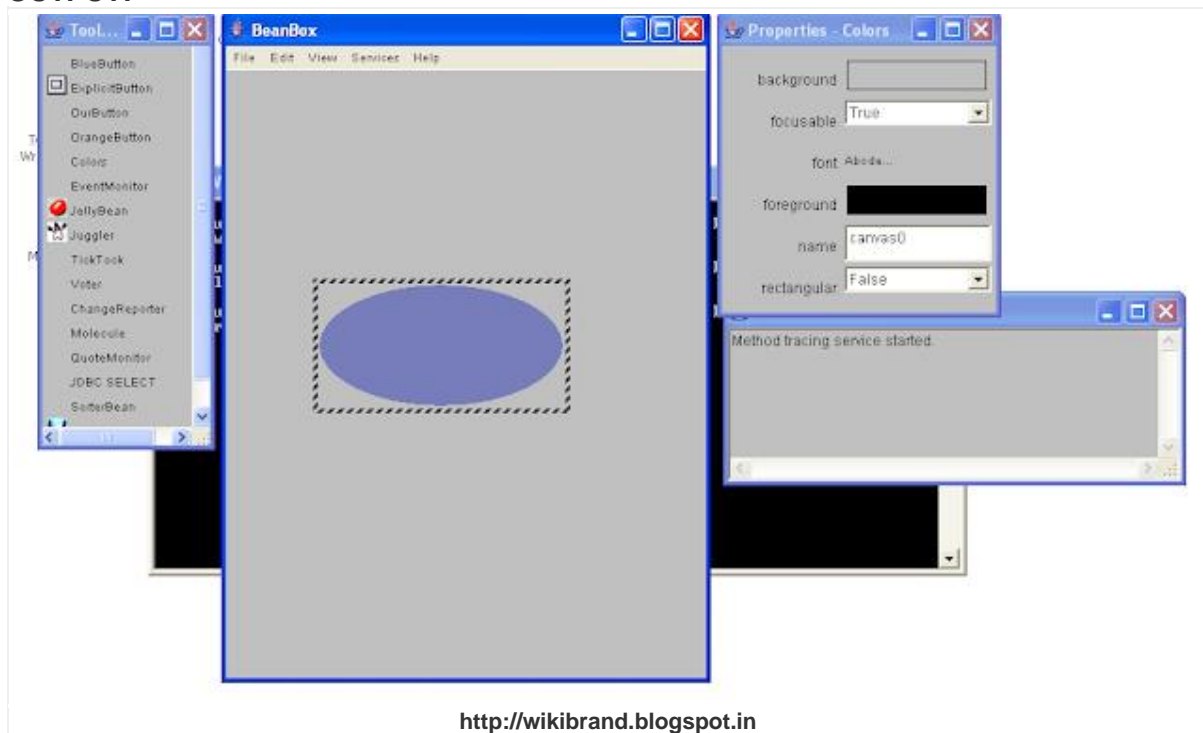
Create a simple visual bean with a area filled with a color. The shape of the area depends on the property shape. If it is set to true then the shape of the area is Square and it is Circle, if it is false. The color of the area should be changed dynamically for every mouse click

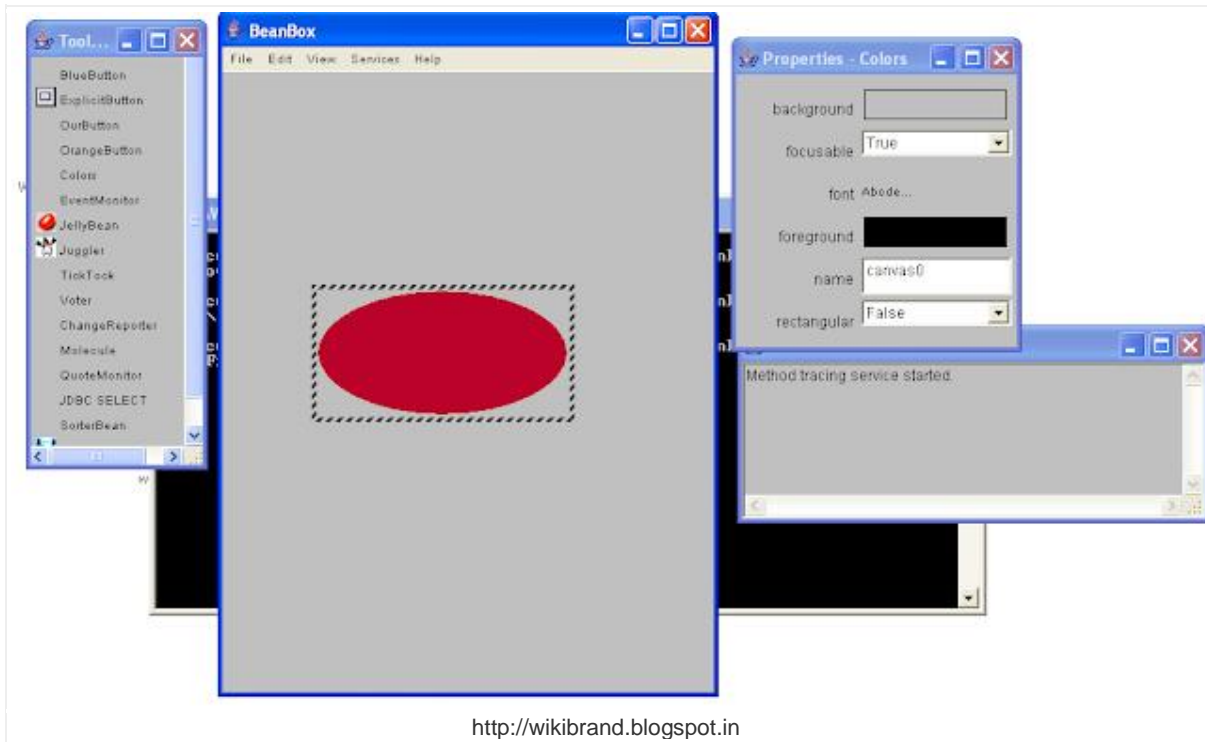
PROGRAM:

```
package sunw.demo.colors;
import java.awt.*;
import java.awt.event.*;
public class Colors extends Canvas
{
    transient private Color color;
    private boolean rectangular;
    public Colors()
    {
        addMouseListener(new MouseAdapter(){
            public void mousePressed(MouseEvent me){
                change(); }
        });
        rectangular=false;
        setSize(100,100);
        change();
    }
    public boolean getRectangular()
    {
        return rectangular;
    }
    public void setRectangular(boolean flag)
    {
        this.rectangular=flag;
        repaint();
    }
    public void change()
    {
        color=randomColor();
        repaint();
    }
    private Color randomColor()
    {
        int r=(int)(255*Math.random());
        int g=(int)(255*Math.random());
        int b=(int)(255*Math.random());
        return new Color(r,g,b);
    }
}
```

```
}  
public void paint(Graphics g)  
{  
Dimension d=getSize();  
int h=d.height;  
int w=d.width;  
g.setColor(color);  
if(rectangular)  
{  
g.fillRect(0,0,w-1,h-1);  
}  
else  
{  
g.fillOval(0,0,w-1,h-1);  
}  
}  
}
```

OUTPUT:





RESULT:

Thus the colors bean is created successfully.

Program 2:

Visual Beans (program 2)

Convert.java

```
package sunw.demo.convert;
import java.awt.*;
import java.awt.event.*;
public class convert extends Canvas
{
    private double dollars=0.0;
    private double rupees=0.0;
    private double dollarvalue=0.0;

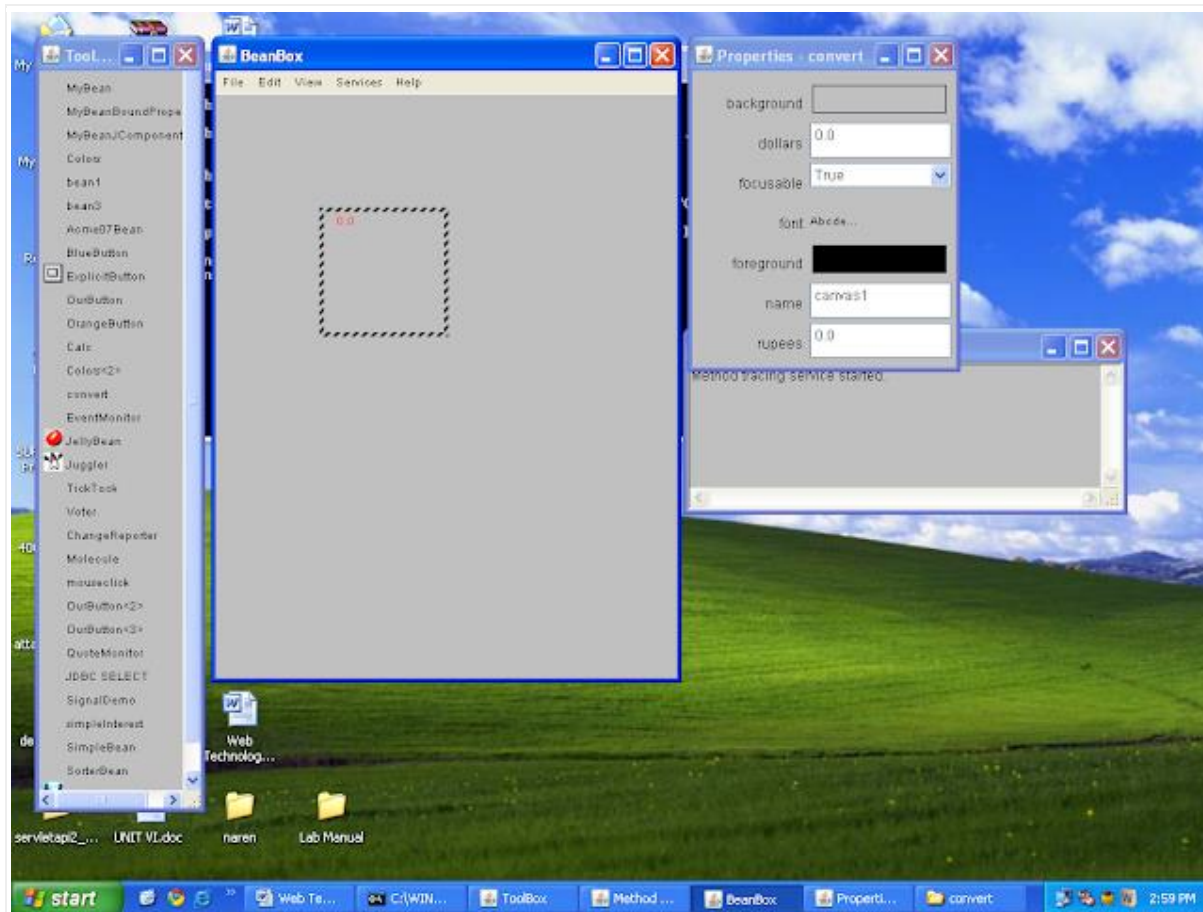
    public convert()
    {
        setSize(100,1000);
    }
    public double getDollars()
    {
        return dollars;
    }
    public void setDollars(double value)
    {
        this.dollars=value;
    }
    public void setRupees(double value)
    {
        this.rupees=value;
    }
    public double getRupees()
    {
        return rupees;
    }
    public void change()
    {
        dollarvalue= value();
        repaint();
    }
    private double value()
    {
        return rupees*dollars;
    }
    public void paint(Graphics g)
    {
        g.setColor(Color.red);
        g.drawString(String.valueOf(dollarvalue),10,10);
    }
}
```

Convert.mf

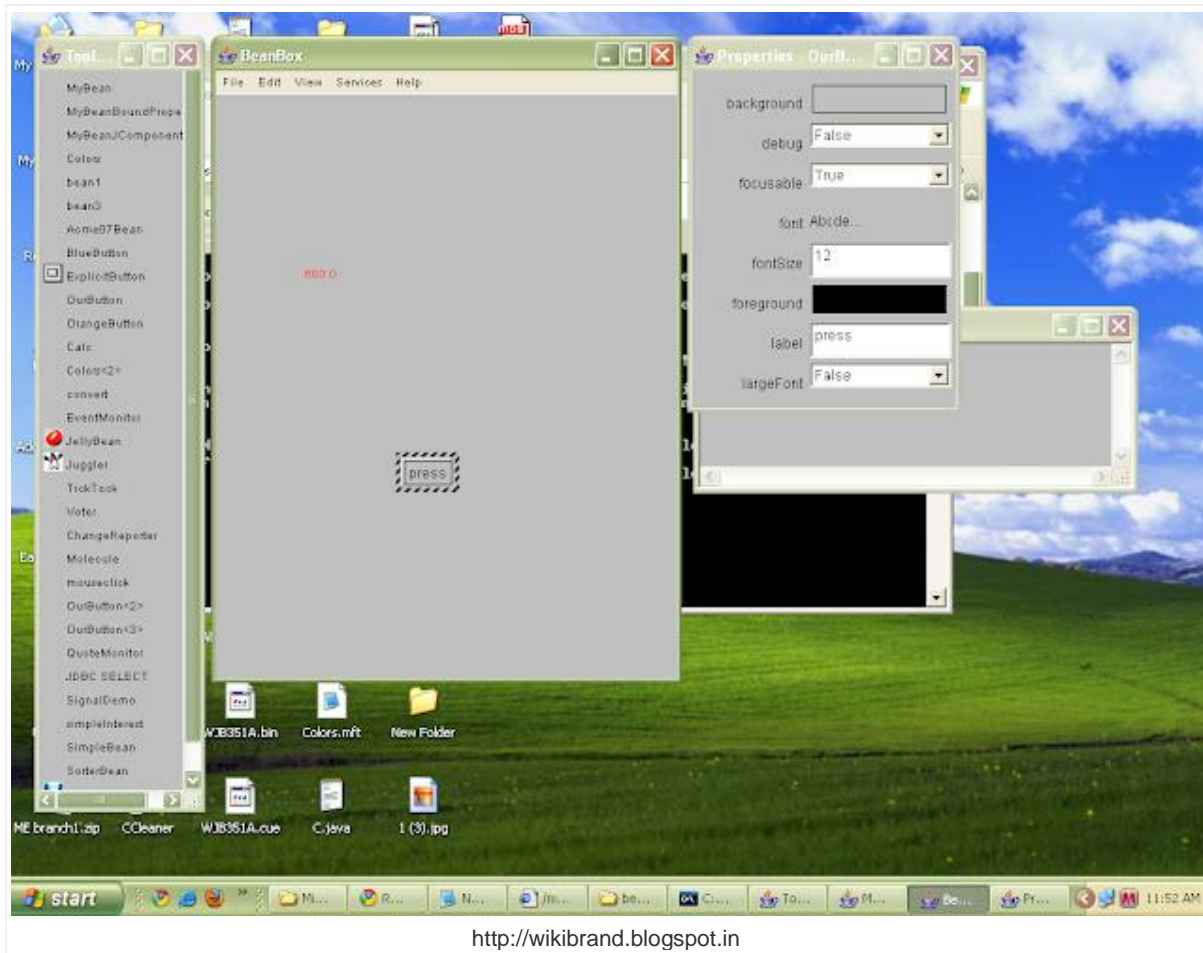
Name: sunw/demo/convert/convert.class

Java-Bean: True (press Enter)

(Carriage return compulsory)



<http://wikibrand.blogspot.in>



Result

Thus the conversion bean is created successfully

Program 3:

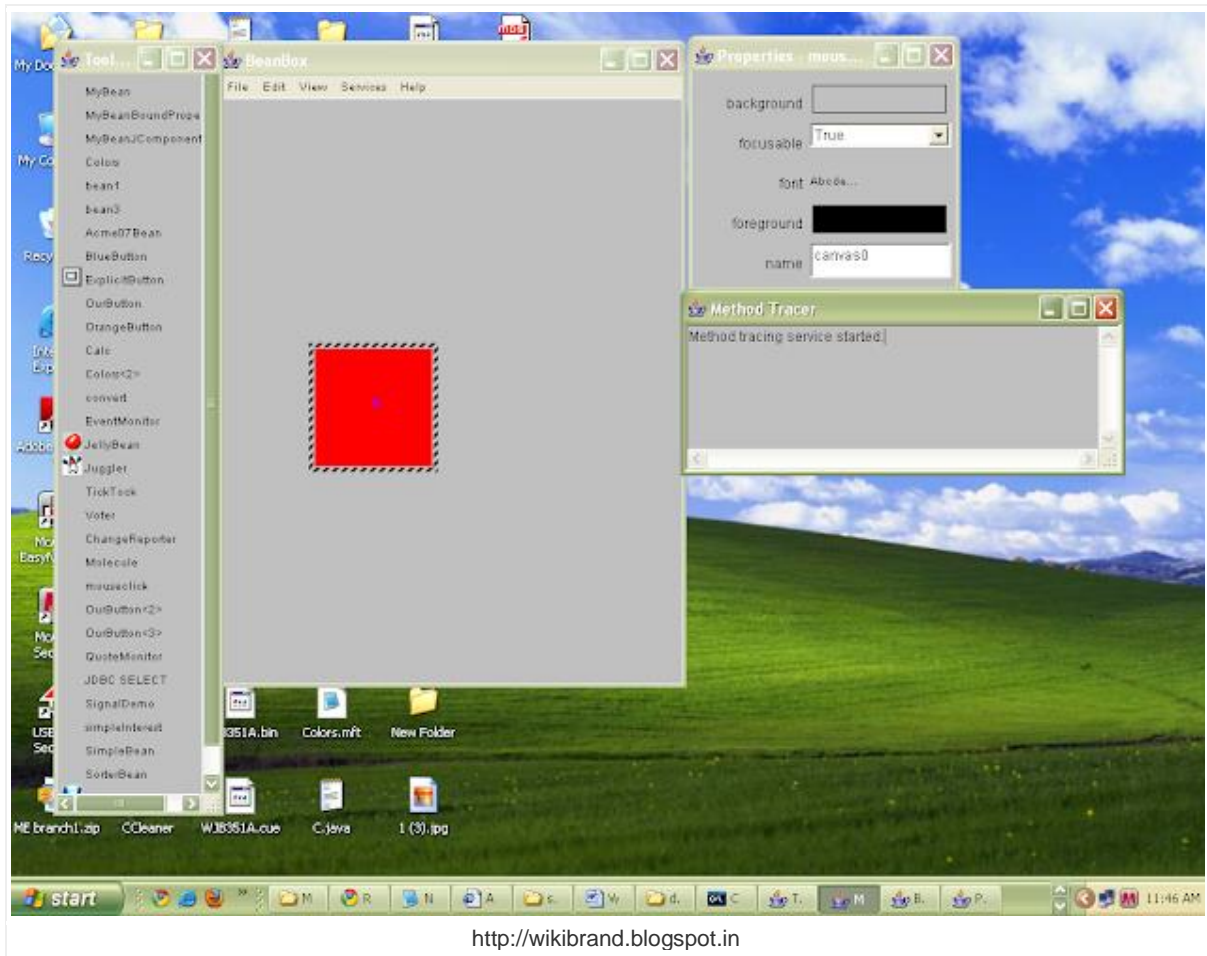
```
package sunw.demo.colors;
import java.awt.*;
import java.awt.event.*;
public class mouseclick extends Canvas {
public int count=0;
public mouseclick() {
addMouseListener(new MouseAdapter() {
public void mousePressed(MouseEvent me) {
change();
}
});
setSize(100,100);
}
public void change() {
count++;
repaint();
}
public void paint(Graphics g) {
Dimension d = getSize();
int h = d.height;
int w = d.width;
g.setColor(Color.red);
g.fillRect(0,0,100,100);
g.setColor(Color.blue);
g.drawString(String.valueOf(count),50,50);
}
}
```

Mouseclick.mft

Name: sunw/demo/colors/mouseclick.class

Java-Bean: True

Output



Result

Thus the Mouse Clicks bean is created successfully