

CMR TECHNICAL CAMPUS
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DEPARTMENT OF CSE (AI & ML)



WEB TECHNOLOGIES LAB MANUAL (R20)
COURSE CODE: 20CS505PC

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Sl.NO	List Of Experiments	Page No
1	Write a PHP script to print prime numbers between 1-50.	
2	PHP script to <ul style="list-style-type: none"> 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. 	
3	Write a PHP script to merge two arrays and sort them as numbers, in descending order.	
4	Write a PHP script that reads data from one file and write into another file.	
5	Develop static pages (using Only HTML) of an online book store. The pages should resemble:www.amazon.com. The website should consist the following pages. <ul style="list-style-type: none"> 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 	
6	Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.	
7	Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.	
8	install TOMCAT web server. Convert the static web pages of assignments 2 into dynamic webpages 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.	
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. The books catalogue should be dynamically loaded from the database. Follow the MVC architecture while doing the website.	

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

```
<?php
$number = 2 ;
while ($number <100 )
{
$div_count=0;
for ( $i=1;$i<=$number;$i++)
{
if (($number%$i)==0)
{
$div_count++;
}
}
if ($div_count<3)
{
echo $number." , ";
}
$number=$number+1;
}
?>
```

OUTPUT:2 , 3 , 5 , 7 , 11 , 13 , 17 , 19 , 23 , 29 , 31 , 37 , 41 , 43 , 47

2) PHP script to

a) Find the length of a string.

```
<!DOCTYPE html>
<html>
<body>
<?php
echo strlen("Hello world!");
?>
</body>
</html>
```

OUTPUT:

12

b) Count no of words in a string.

```
<!DOCTYPE html>
<html>
<body>

<?php
echo str_word_count("Hello world!");
?>
```

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

c) Reverse a string.

```
<!DOCTYPE html>
<html>
<body>
```

```
<?php
echo strrev("Hello world!");
?>
```

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

OUTPUT:

```
!dlrowolleH
```

d) Search for a specific string.

```
<!DOCTYPE html>
<html>
<body>
```

```
<?php
echo strpos("Hello world!", "world");
?>
```

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

OUTPUT:

```
6
```

```
<!DOCTYPE html>
<html>
<body>
```

```
<?php
echo str_replace("world", "Dolly", "Hello world!");
?>
```

OUTPUT

```
Hello Dolly!
```

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

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

```
<?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);
?>
```

OUTPUT:-

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

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

```
<?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";

    }

}
```

```
<?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:

enter your file

choose your extension choose ur exten

hi

Enter your contents

Disp

5) Develop static pages (using Only HTML) of an online book store. The pages should resemble: www.amazon.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
- Home page**

Main.html:

```
<html>
<head>
<title>
Amazon</title>
</head>
<body bgcolor="cyan"><center>
<strong><h1>Welcome to AMAZON</h1></strong>
<form method="post" action="login.html" target=_blank >
<h4>for books</h4><input type="submit" value="click here">
</form>
</center>
</body>
</html>
```

Registration and user Login

Login.html:

```
<html>
<head>
<title>
login</title>
</head>
<body bgcolor="cyan"><center>
<strong><h1> AMAZON </h1></strong></center>
<right>
<table align="right">
<tr>
<td><h4>user name</td>
<td><input type="text" ></td>
<td></td>
</tr>
<tr>
```



```

<tr>
<td></td>
<td><h4>JAVA
</td></tr>
<tr>
<td><b><h3>backend books</td>
<td></td>
</tr>
<tr>
<td></td>
<td><h4>Oracle</td>
</tr>
<tr>
<td></td>
<td><h4>Ms SQL Server
</td></tr>
<tr>
<td></td>
<td><h4>MySql</td>
</tr>
</table>
</h4>
<center>
<b>for buy one of these books
<br>
</b><input type="submit" value="click here">
</center>
</form>
</body>
</html>

```

Shopping cart

Shopping.html:

```

<html>
<head><title>shopping cart</title>
</head>
<body bgcolor="cyan">
<center><h1>
Shopping Cart</h1></center>
<br><br><br><br><br>
<table align="center">
<tr>
<td>Text Books</td>
<td>

```

```

<select >
<optgroup label="select the book">
<option value="C&Ds">C&Ds
<option value="Ads">Ads
<option value="Java">Java
<option value="Oracle">Oracle
<option value="Ms SQL Server">Ms SQL Server
<option value="MySql">MySql
</optgroup>
</select>
</td></tr>
<tr>
<td>
Quantity</td>
<td>
<input type="text" id="q">
</td></tr>
<tr>
<td></td>
<td>
<form method=post action="payment.html">
<input type="submit" value=ok />
</form>
</td></tr>
</table>
<center>
<pre>Cost of one book is"500" + shipping "100"</pre>
</center>
<body>
</html>

```

Payment.html:

```

<html>
<head><title>payment</title></head>
<body bgcolor="cyan">
<center><h1>Payment By Credit Card</h1></center>
<form method=post action="ordrconform.html">
<br><br><br><br><br>
<table align="center">
<tr>
<td>
<h4>Total Amount</h4></td>

```

```

<td><input type="text">
</td>
</tr>
<tr>
<td><h4>Credit Card Number</td>
<td><input type="text"></td>
</tr>
<tr>
<td>
</td>
</tr>
<td><input type="submit" value=OK>
</td>
</tr>
</table>
</form></body>
</html>

```

Order Conformation

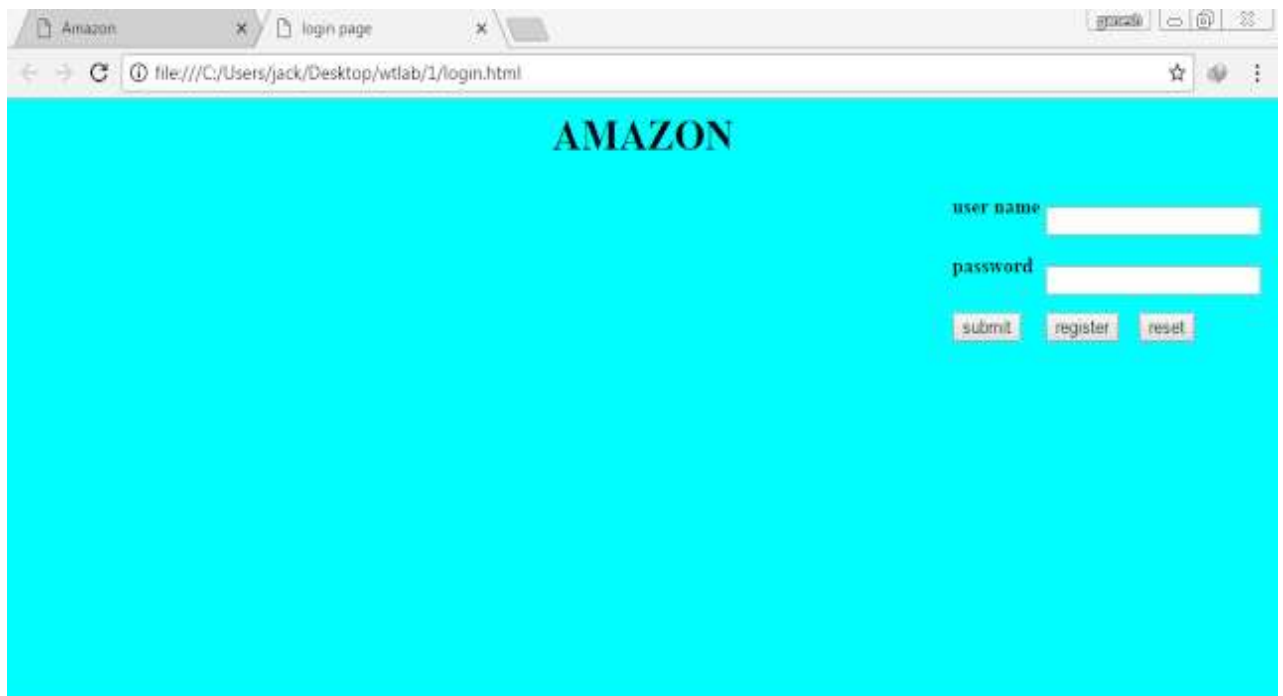
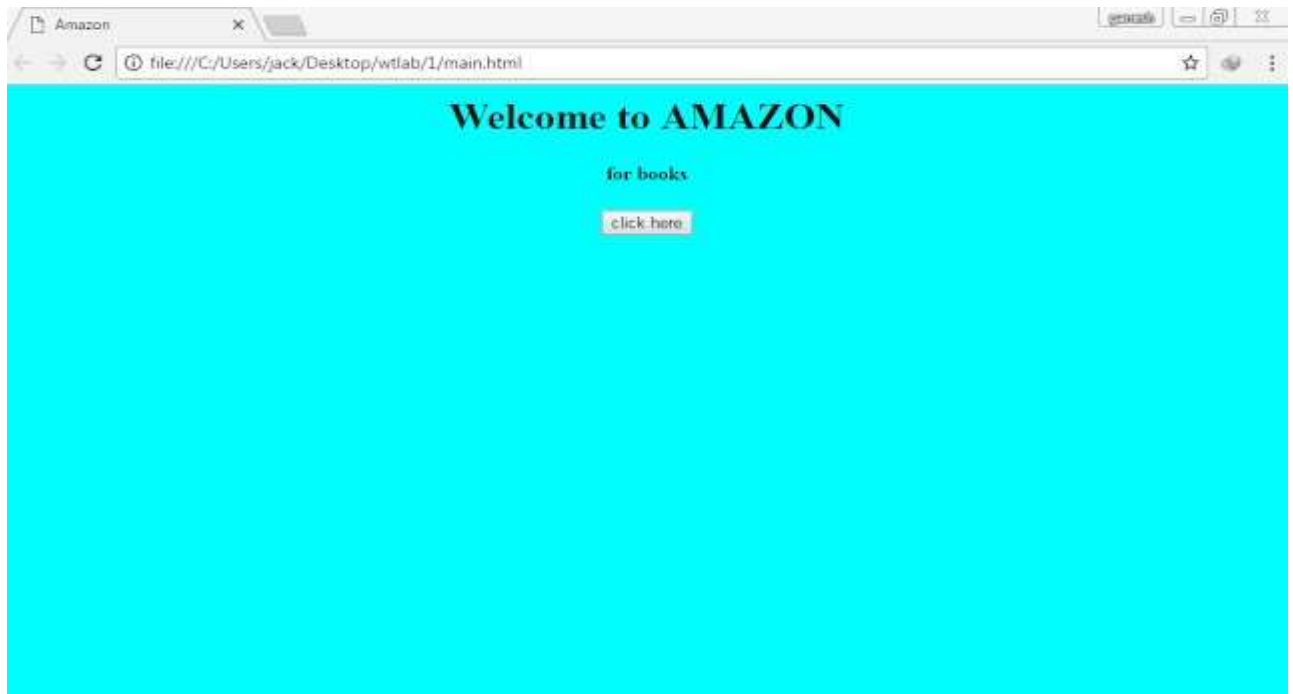
Ordrconform.html:

```

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

```

output:



Amazon login page Registration page

file:///C:/Users/jack/Desktop/wtlab/1/reg.html

AMAZON

user name

password

confirm password

male ☐ female ☐

Address

submit reset

books catalog userprofile shopping cart payment books catalog order confir

file:///C:/Users/jack/Desktop/wtlab/1/userprofile.html

Welcome to AMAZON Online Book Store

Edit your profile here...

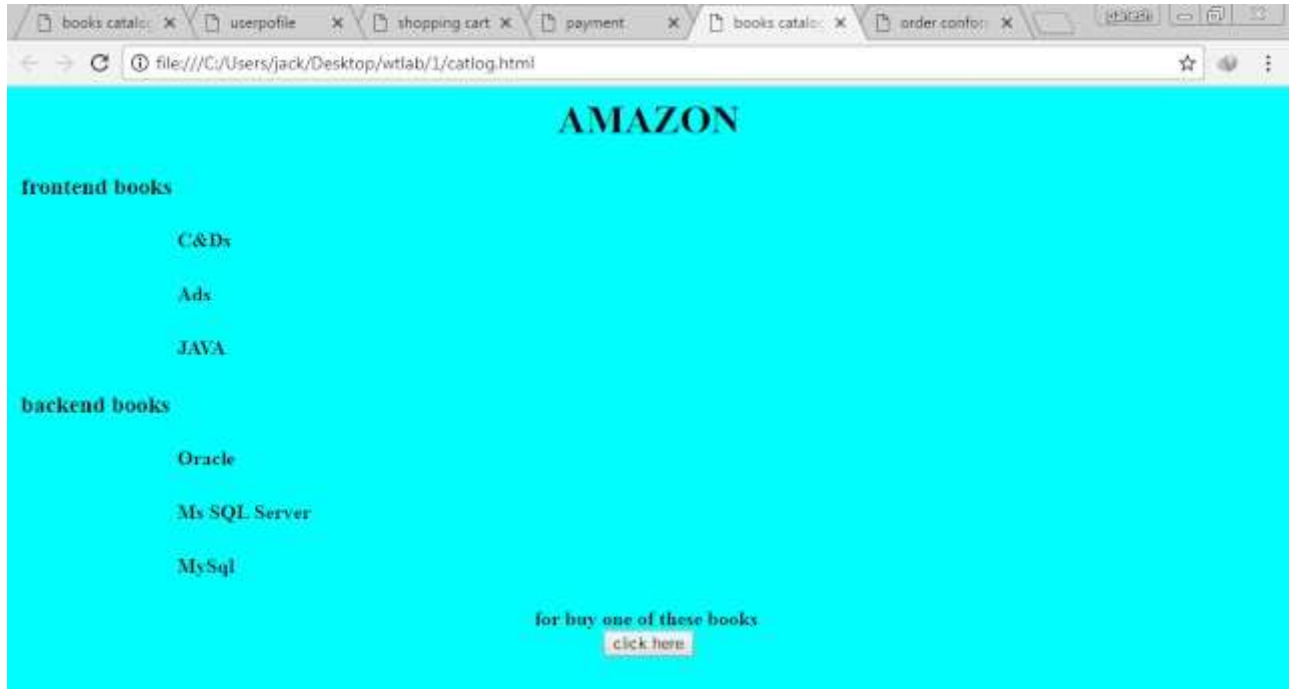
Edit user name

Edit password

male ☐ female ☐

Edit Address

submit



books catalog x userprofile x shopping cart x payment x books catalog x order confirm x

file:///C:/Users/jack/Desktop/wtlab/1/payment.html

Payment By Credit Card

Total Amount

Credit Card Number

OK

books catalog x userprofile x shopping cart x payment x books catalog x order confirm x

file:///C:/Users/jack/Desktop/wtlab/1/orderconfirm.html

BOOK SHOPPING

Your order is Confirmed

THANK YOU

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

Homepage:

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>
```

Registration and user Login

Login.html:

```
<html>
<body bgcolor="pink"><br><br><br>
<script
language="javascript">
function validate()
{
var flag=1;
if(document.myform.id.value=="
"||
document.myform.pwd.value=="
")
{
alert("LoginId and Password must be filled")
flag=0;
}
if(flag==1)
{
```



```

d.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]+$","g");
if(!(str1.match(x1)))
{
    flag=0;
    alert("Invalid UserID");
}
var
str1=document.myform.pwd.valu
e; var x1=new RegExp("^[A-
Z][a-zA-Z]+$","g");
if(!(str1.match(x1)))
{
    flag=0;
    alert("Invalid password");
}

if(f
lag
==
1)
{
    alert("VALID INPUT");
    window.self.location.href="login.html";
}

```



```

        {
            document.myform.t1.value="C";
            document.myform.t2.value=444;
        }
    else if(str=="jsp"||str=="JSP")

        else{
            document.myform.t1.value="JSP"; document.myform.t2.value=555;
        }

    {
        flag=0;
    }

```

Catalog.html:

```

<html>
<body bgcolor="pink"><br><br><br>
<script
    language="javascript
"> function
validate()
{
    var flag=1;
    if(document.myform.id.value
    ==""||
        document.myform.title.valu
        e==""||
        document.myform.no.valu
        e==""||
        document.myform.cost.val
        ue=="")
    {
        flag=0;
    }

    str=document.myform.title.value;
    var str1=document.myform.cost.value;
    if(!((str=="c"&& str1==444) || (str=="jsp" && str1==555)))
    {

```

```
flag=0;
}

if(flag==1)
{

alert("VALID INPUT");


else
}



    }


{
    alert("INVALIDINPUT");
    document.myform.focus();
}
</script>

<form name="myform" action="scart.html" target="right">
<div align="center"><pre>
LOGINID          :<input type="text" name="id"><br>
TITLE            :<input type="text"
name="title"><br>NO.OFBOOKS           :<input
type="text"name="no"><br>
COSTOFBOOK      :<input type="text"name="cost"><br>
</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;&nbsp;&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">
</form>
</body>
</html>
```

Payment by creditcard

Payment.html

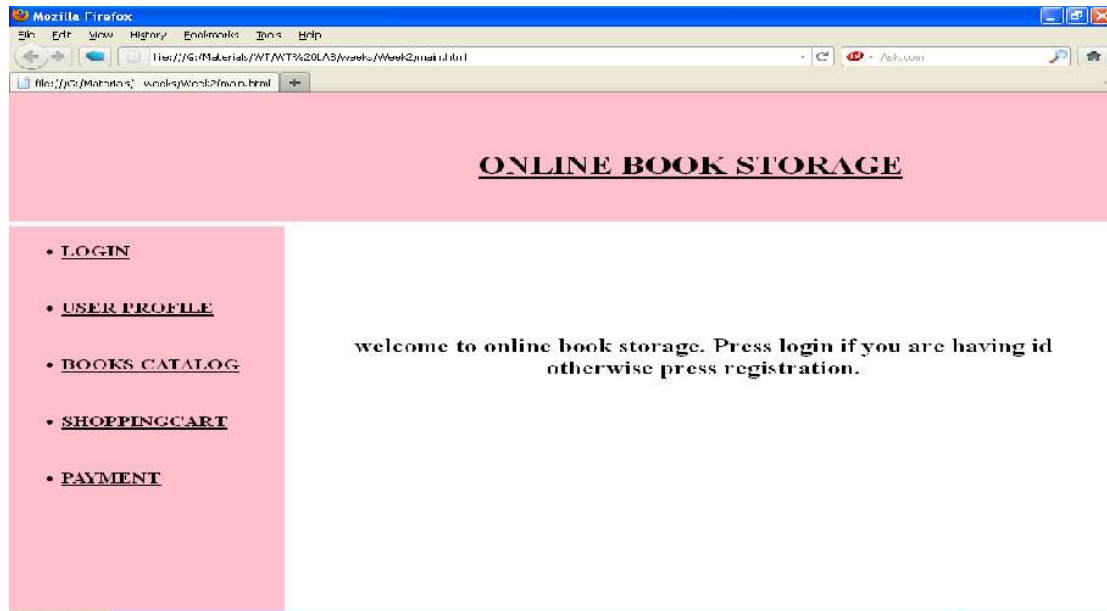
```
<html>
<body bgcolor="pink"><br><br><br>
<script language="javascript">
function validate()
{
var flag=1;
if(document.myform.id.value=="|| document.myform.pwd.value=="||
document.myform.amount.value=="|| document.myform.num.value=="")
{
```



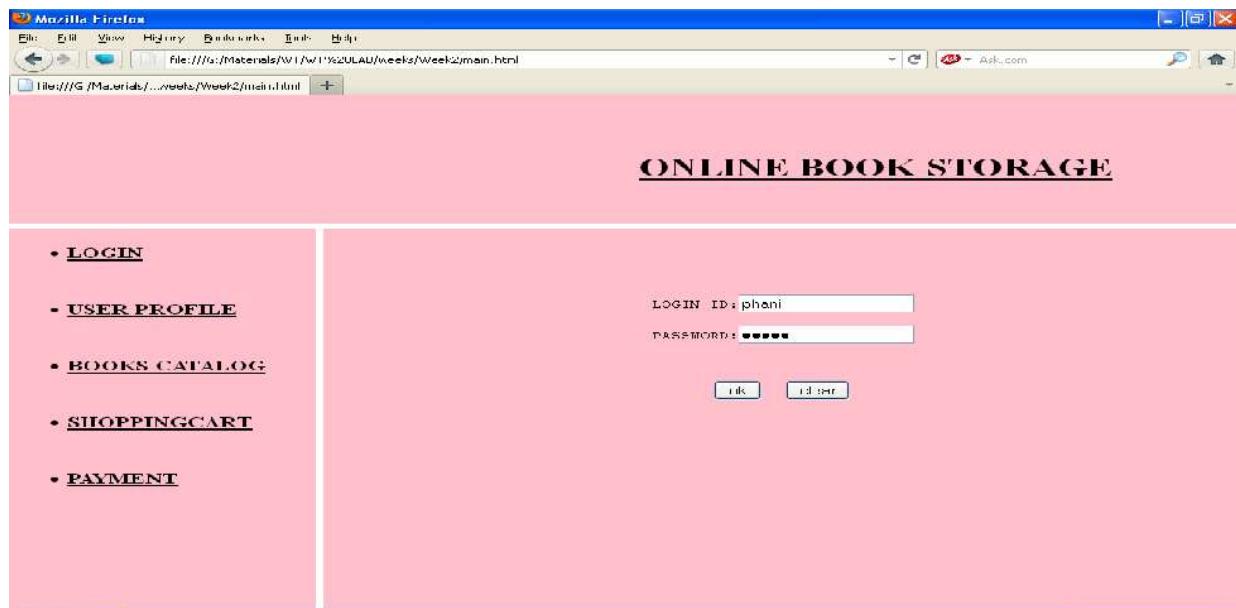
```
</body>
</html>
```

OUTPUT:

Main.html



Login.html:



Catalog.html:

ONLINE BOOK STORAGE

- **LOGIN**
- **USER PROFILE**
- **BOOKS CATALOG**
- **SHOPPINGCART**
- **PAYMENT**

LOGIN ID :

TITLE :

NO. OF BOOKS :

COST OF BOOK :

Scart.html:

ONLINE BOOK STORAGE

- **LOGIN**
- **USER PROFILE**
- **BOOKS CATALOG**
- **SHOPPINGCART**
- **PAYMENT**

BOOK TITLE :

Book Title: Book Cost:

Payment.html:

ONLINE BOOK STORAGE

- [LOGIN](#)
- [USER PROFILE](#)
- [BOOKS CATALOG](#)
- [SHOPPINGCART](#)
- [PAYMENT](#)

LOGIN ID:

PASSWORD:

AMOUNT:

CREDIT CARD NUMBER:

Order.html

ONLINE BOOK STORAGE

- [LOGIN](#)
- [USER PROFILE](#)
- [BOOKS CATALOG](#)
- [SHOPPINGCART](#)
- [PAYMENT](#)

AMAZON

Your order is confirmed

THANK YOU

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

```
<employees>
<employee id="111">
<firstName>Chandrika</firstName>
<lastName>Gupta</lastName>
<location>India</location>
</employee>
<employee id="222">
<firstName>Srinivas</firstName>
<lastName>Reddy</lastName>
<location>Russia</location>
</employee>
<employee id="333">
<firstName>Anupama</firstName>
<lastName>P</lastName>
<location>USA</location>
</employee>
```

```
<employee id="444">
<firstName>Lokesh</firstName>
<lastName>Gupta</lastName>
<location>India</location>
</employee>
<employee id="555">
<firstName>Vishnu</firstName>
<lastName>Gussin</lastName>
<location>Russia</location>
</employee>
<employee id="666">
<firstName>Veeru</firstName>
<lastName>Feezor</lastName>
<location>USA</location>
```

```

</employee>
<employee id="777">
<firstName>Pavan</firstName>
<lastName>Feezor</lastName>
<location>USA</location>
</employee>

<employee id="888">
<firstName>Narayana</firstName>
<lastName>Gussin</lastName>
<location>Russia</location>
</employee>
<employee id="999">
<firstName>David</firstName>
<lastName>Feezor</lastName>
<location>USA</location>
</employee>
<employee id="1000">
<firstName>Sunder</firstName>
<lastName>Feezor</lastName>
<location>USA</location>
</employee>
</employees>

```

ReadXML.java:

```

import org.w3c.dom.*;
import javax.xml.parsers.*;
import java.io.*;
import java.util.Scanner;
public class ReadXML {
    public static void main(String a[]) throws Exception {
        DocumentBuilderFactory factory =
DocumentBuilderFactory.newInstance();
        DocumentBuilder builder = factory.newDocumentBuilder();

        //Build Document
        Document document = builder.parse(new
File("C:\\Users\\Narayana\\Desktop\\employees.xml"));
        //Normalize the XML Structure; It's just too
important !! document.getDocumentElement().normalize();

```



```

//Here comes the root node
Element root = document.getDocumentElement();

//Get all employees
NodeList nList = document.getElementsByTagName("employee");
System.out.println("enter employee id:");
Scanner s=new Scanner(System.in);
String id=s.next();
for (int temp = 0; temp <nList.getLength(); temp++)
{
    Node node = nList.item(temp);
    if (node.getNodeType() == Node.ELEMENT_NODE)
    {
        Element eElement = (Element) node;
        if(eElement.getAttribute("id").equals(id)){
            System.out.println("First Name : "+
eElement.getElementsByTagName("firstName").item(0).getTextContent());
            System.out.println("Last Name:" +
eElement.getElementsByTagName("lastName").item(0).getTextContent());
            System.out.println("Location:" +
eElement.getElementsByTagName("location").item(0).getTextContent());
        }
    }
}
}
}

```

OUTPUT:-

Enter Employee Id: 222

```

First Name : Srinivas
Last Name  : Reddy
Location   : Russia

```

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

PROCEDURE:

First install the tomcat into the system.

Then make a subdirectory(eg., tr) in the \tomcat\webapps.

Under tr create WEB-INF directory and also place the html files in this tr directory only. Next under WEB-INF create two subclasses lib,classes and web.xml

Next place all the class files under the classes and jar files(servlet-api.jar,classes12.jar etc...) under lib subdirectories.

After this start tomcat by giving the following command at the instll_dir>tomcat>bin Catalina.bat run

At the I.E(web browser) give the url as http://localhost:8080//tr/htmlfile or servlet url pattern Portno 8080 is assigned for the tomcat.

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>/servlet</url-pattern>
    </servlet-mapping>
    <servlet>
      <servlet-name>order</servlet-name>
      <servlet-class>order</servlet-class>
    </servlet>
  </servlet-mapping>
</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>

```

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>

```

Login.html

[illegible]

Reg.html

[illegible]

Profile.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 />
<form name="myform" method="post" action="/tr/profile">
```



```

name="button1"/>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="reset"
value="clear" name="button2"/>
</div>
</form>
</body>
</html>

```

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\"");
        String id=req.getParameter("id");
        String
        pwd=req.getParameter("pwd"); 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(
            ))
            {
                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";
    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==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\"';
        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\");
        int count=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";
ResultSetrs=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
{

```

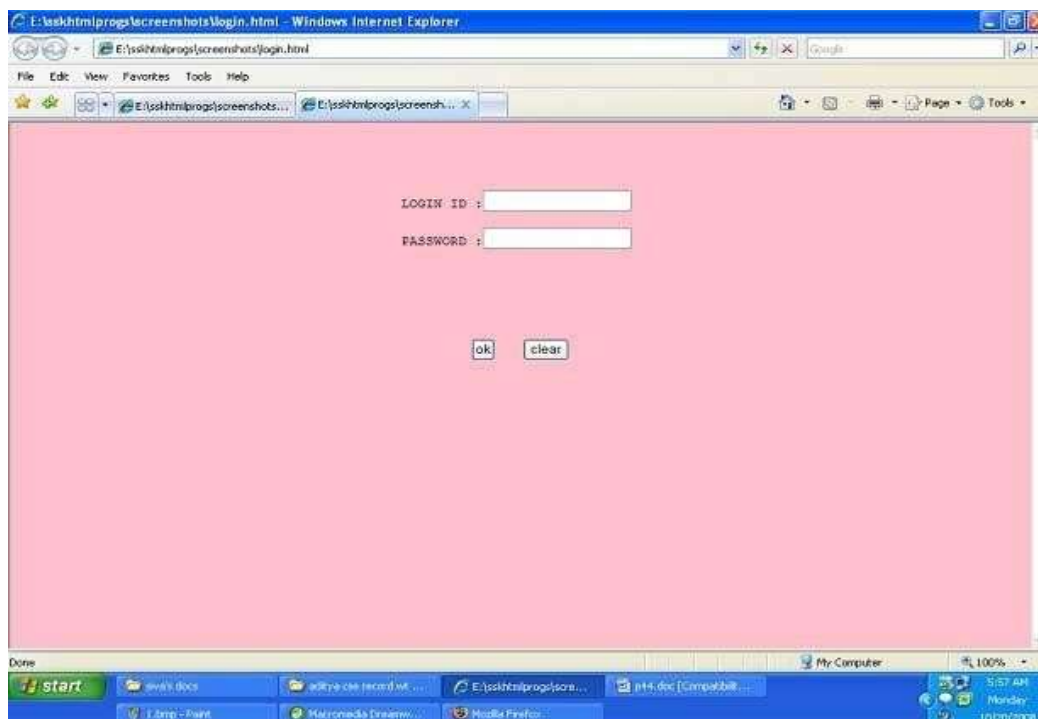
```

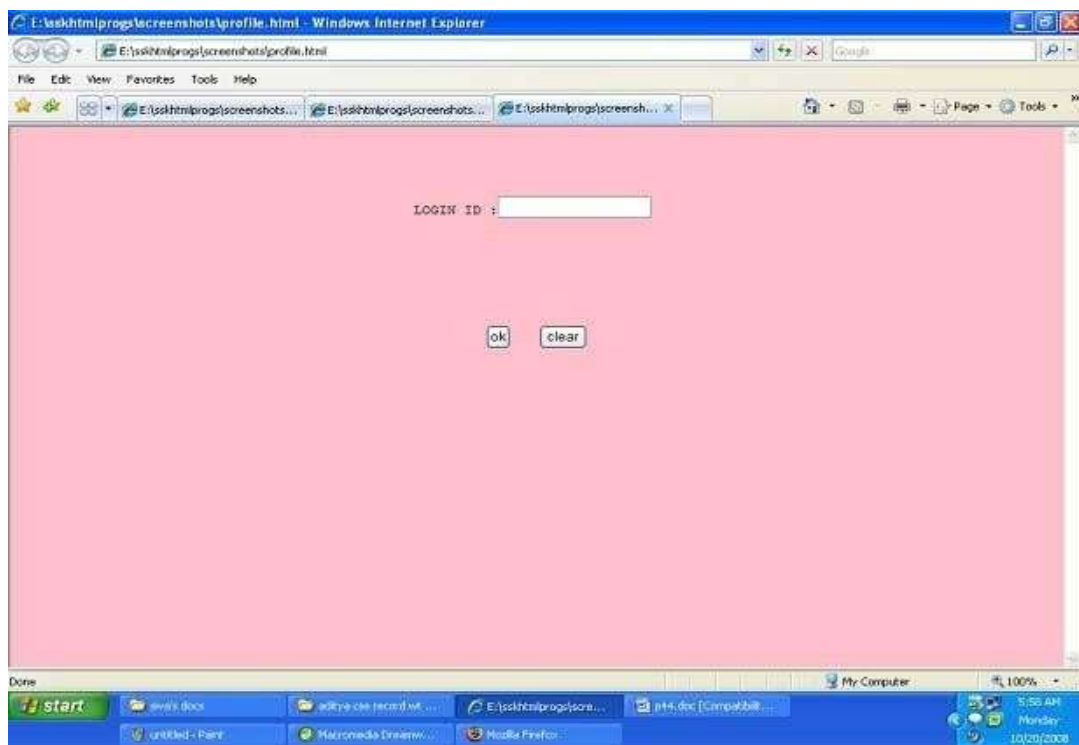
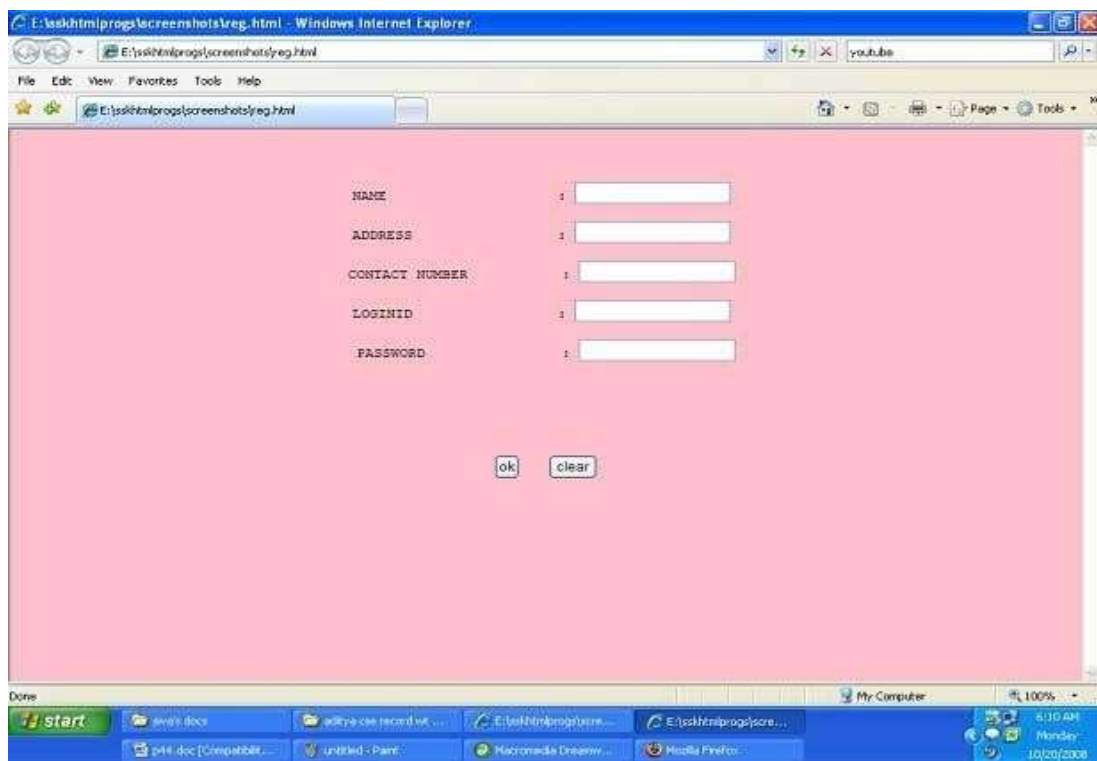
Statement stmt2=con.createStatement();
String s="select cost from book where title="+title+""; ResultSet
rs1=stmt2.executeQuery(s);
int flag1=0; while(rs1.next())
{
    flag1=1;
    x=Integer.parseInt(rs1.getString(
1));
    amount=count*x;
    pw.println("AMOUNT :"+amount+"<br><br><br><br>");
    Statement 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>");

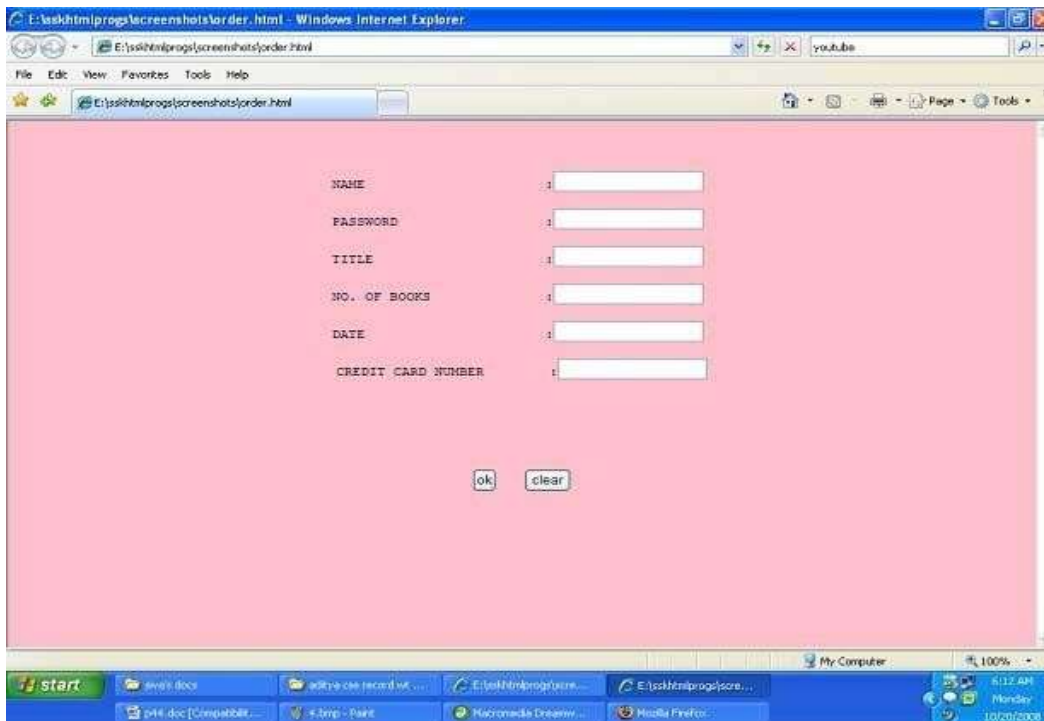
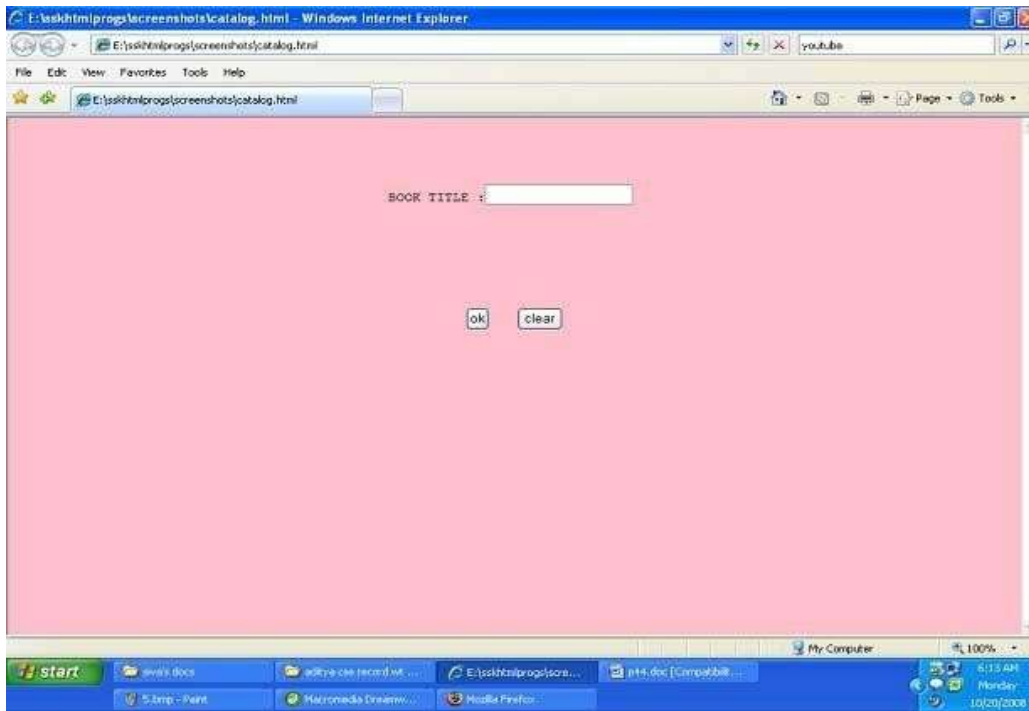
}
}
pw.println("</body></html>");
con.close();
}

```

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







- 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. The books catalogue should be dynamically loaded from the database. Follow the MVC architecture while doing the website.**

- 1) Create your own directory under tomcat/webapps (e.g.tr1)
- 2) Copy the html files intr1
- 3) Copy the jsp files also into tr1
- 4) Start tomcat give the following command Catalina.batrun
At install-dir/bin
- 5) at I.E give url as <http://localhost:8081/tr1/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><a href="/tr/log
in.html">REGISTRATION</a></div></pre>
</body></html>
```

```
<html>  
    <body bgcolor=""pink"><br><br><br>  
    <form name="myform" method="post" action="/tr1/login.jsp">  
        <div align="center"><pre>  
            LOGIN ID :<input type="passwors"  
name="pwd"></pre><br><br> PASSWORD : <input  
type="password" name="pwd"></pre><br><br>  
        </div>  
        <br><br>  
        <div align="center">  
            <inputtype="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;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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">
```



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

Reg.html:

[illegible]

Profile.html:

```
<html>  
<body bgcolor="pink"><br><br>  
<form name="myform" method="post" action="/tr1/profile.jsp">  
  <div align="center"><pre>  
LOGINID      : <input type="text" name="id"><br>  
</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;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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">  
</form>  
</body>  
</html>
```

Catalog.html:

```
<html>
<body bgcolor="pink"><br><br><br>
<form method="post" action="/tr1/catalog.jsp">
  <div align="center"><pre>
    BOOK TITLE :<input type="text" name="title"><br>
  </pre><br><br>
</div>
<br><br>
<div align="center">
  <input type="submit" value="ok"
    name="button1">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="reset" value="clear"
    name="button2"
  ">
</div>
</form>
</body>
</html>
```

Order.html:

```
<html>
<body bgcolor="pink"><br><br><br>
<form method="post" action="/tr1/order.jsp">
  <div align="center"><pre>
    LOGINID :<input type="text"
    name="id"><br>PASSWORD :<input
    type="password" name="pwd"><br> TITLE
    :<input
    type="text" name="title"><br>
    NO. OF BOOKS :<input type="text"
    name="no"><br> DATE : <input
    type="text" name="date"><br>
    CREDIT CARD NUMBER :<input type="password" name="cno"><br></pre><br><br>
  </div>
  <br><br>
  <div align="center">
    <input type="submit" value="ok" name="button1">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input
    type="reset" value="clear" name="button2">
  </div>
</form>
</body>
</html>
```

Login.jsp: 41

```
%@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\"'><font color='\"black\"'>USER
    PROFILE</font></a></li><br><br>");

    out.println("<li><a href='\"catalog.html\"'><font color='\"black\"'>BOOKS
    CATALOG</font></a></li><br><br>");
    out.println("<li><a href='\"order.html\"'><font color='\"black\"'>ORDER
    CONFIRMATION</font></a></li><br><br>"); out.println("</ul>");
}
    out.println("</body></html>");
%>
42

```

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";
ResultSets=stmt.executeQuery(sql
stmt); 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: 43

```

<%@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.registerDriver(d);

```

```

        Connection con=
        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","s
        cott","tiger"); Statement stmt=con.createStatement ();
        String sqlstmt="select * from login where
        id="+id+"'"; ResultSets=stmt.executeQuery
        (sqlstmt);
        int
        flag=0;
        while(rs.next())
        {
            out.println("<div align=\"center\">");
            out.println("NAME
                        :"+rs.getString(1)+"<br>
            r"); 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+"'"; ResultSets=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";
    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)
        {
            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>");%>

```

OUTPUT:

