```
<html>
<head><title>Hello World</title></head>
<body>
Hello World!<br/>
<%
out.println("Your IP address is " + request.getRemoteAddr());
%>
</body>
</html>
```

```
Jspaction.java
<%! int day = 3; %>
<html>
<head><title>IF...ELSE Example</title></head>
<body>
<% if (day == 1 || day == 7) { %>
 Today is weekend
<% } else { %>
 Today is not weekend
<% } %>
 Today is not weekend
</hr>
</ra>
```

```
Switch.jsp
<\%! int day = 3; %>
<html>
<head><title>SWITCH...CASE Example</title></head>
<body>
<%
switch(day) {
case 0:
out.println("It\'s Sunday.");
break;
case 1:
out.println("It\'s Monday.");
break;
case 2:
out.println("It\'s Tuesday.");
break;
case 3:
out.println("It\'s Wednesday.");
break;
case 4:
out.println("It\'s Thursday.");
break;
case 5:
out.println("It\'s Friday.");
break;
default:
out.println("It's Saturday.");
%>
</body>
</html>
```

forloop.jsp

```
<%! int fontSize; %>
<html>
<head><title>FOR LOOP Example</title></head>
<body>
<%for ( fontSize = 1; fontSize <= 3; fontSize++){ %>
<font color = "green" size = "<%= fontSize %>">
JSP Tutorial
</font><br/>

</pd>

<pr
```

```
While.jsp
<%! int fontSize; %>
<html>
<head><title>WHILE LOOP Example</title></head>
<body>
<%while ( fontSize <= 3){ %>
<font color = "green" size = "<%= fontSize %>">
JSP Tutorial
</font><br />
<%fontSize++;%>
<%}%>
</body>
</html>
Following is the content of the date.jsp file –
Today's date: <%= (new java.util.Date()).toLocaleString()%>
Following is the content of the main.jsp file –
<html>
<head>
<title>The include Action Example</title>
</head>
<body>
<center>
<h2>The include action Example</h2>
<jsp:include page = "date.jsp" flush = "true" />
</center>
</body>
</html>
Forwarding pages in JSP
index.jsp
<html>
<body>
<h2>this is index page</h2>
<jsp:forward page="printdate.jsp" />
</body>
</html>
printdate.jsp
<html>
<body>
<% out.print("Today is:"+java.util.Calendar.getInstance().getTime()); %>
</body>
```

```
</html>
Forwarding page 2
index.jsp
<html>
<body>
<h2>this is index page</h2>
<jsp:forward page="printdate.jsp" >
<jsp:param name="name" value="javat" />
</isp:forward>
</body>
</html>
printdate.jsp
<html>
<body>
<% out.print("Today is:"+java.util.Calendar.getInstance().getTime()); %>
<%= request.getParameter("name") %>
</body>
</html>
Jsp:include1.jsp
index.jsp
<h2>this is index page</h2>
<jsp:include page="printdate.jsp" />
<h2>end section of index page</h2>
printdate.jsp
<% out.print("Today is:"+java.util.Calendar.getInstance().getTime()); %>
Jsp:include1.jsp
<html>
<head>
<title>JSP Include example with parameters</title>
</head>
<body>
<h2>This is index.jsp Page</h2>
<jsp:include page="display.jsp">
<jsp:param name="userid" value="Chaitanya" />
<jsp:param name="password" value="Chaitanya" />
```

```
<jsp:param name="name" value="Chaitanya K" />
<jsp:param name="age" value="27" />
</jsp:include>
</body>
</html>
display.jsp
<html>
<head>
<title>Display Page</title>
</head>
<body>
<h2>Hello this is a display.jsp Page</h2>
UserID: <%=request.getParameter("userid") %><br>
Password is: <%=request.getParameter("password") %><br>
User Name: <%=request.getParameter("name") %><br>
Age: <%=request.getParameter("age") %>
</body>
</html>
```

```
Jsp:param.jsp
first.jsp
<html>
<head>
<title>Demo of JSP Param Action Tag</title>
</head>
<body>
<h3>JSP page: Demo Param along with forward</h3>
<jsp:forward page="second.jsp">
<jsp:param name ="date" value="20-05-2012" />
<jsp:param name ="time" value="10:15AM" />
<jsp:param name ="data" value="ABC" />
</isp:forward>
</body>
</html>
In the above example first jsp is passing three parameters (data, time & data) to second jsp and
second.jsp can access these parameters using the below code –
Date:<%= request.getParameter("date") %>
Time:<%= request.getParameter("time") %>
My Data:<%= request.getParameter("data") %>
JSP directive
Form Parameters.jsp
<html>
<body>
<form action = "main.jsp" method = "POST" target = " blank">
<input type = "checkbox" name = "maths" checked = "checked" /> Maths
<input type = "checkbox" name = "physics" /> Physics
<input type = "checkbox" name = "chemistry" checked = "checked" /> Chem
<input type = "submit" value = "Select Subject" />
</form>
</body>
</html>
JSP directives
<%@ page import = "java.io.*,java.util.*" %>
<html>
<head>
<title>HTTP Header Request Example</title>
</head>
```

```
<body>
<center>
<h2>HTTP Header Request Example</h2>
Param Name
Param Value(s)
<%
Enumeration paramNames = request.getParameterNames();
while(paramNames.hasMoreElements()) {
String paramName = (String)paramNames.nextElement();
out.print("" + paramName + "\n");
String paramValue = request.getHeader(paramName);
out.println("" + paramValue + "\n");
<sup>0</sup>/<sub>0</sub>>
</center>
</body>
</html>
```

Errorpage in JSP

```
Process.jsp
<%@ page errorPage="error.jsp" %>
<%
String num1=request.getParameter("n1");
String num2=request.getParameter("n2");
int a=Integer.parseInt(num1);
int b=Integer.parseInt(num2);
int c=a/b;
out.print("division of numbers is: "+c);
%>
Index.jsp
<form action="process.jsp">
No1:<input type="text" name="n1" /><br/>
No1:<input type="text" name="n2" /><br/>
<input type="submit" value="divide"/></form>
isErrorPage: Used to mark a page as an error page where exceptions are displayed.
Error.jsp
<%@ page isErrorPage="true" %>
<h3>Sorry an exception occured!</h3>
```

Exception is: <%= exception %>



```
Cookies
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Setting Cookies</title>
</head>
<body>
<h1>Setting Cookies</h1>
<form action="main.jsp" method="GET">
 First Name: <input type="text" name="first name"> <br/> Last
 Name: <input type="text" name="last name" /><br/> <input type="submit"
value="Submit" />
</form>
</body>
</html>
Main.jsp
<%
// Create cookies for first and last names.
Cookie firstName = new Cookie("first name", request.getParameter("first name"));
Cookie lastName = new Cookie("last name", request.getParameter("last name"));
// Set expiry date after one hour for both the cookies.
firstName.setMaxAge(60 * 60);
lastName.setMaxAge(60 * 60);
// Add both the cookies in the response header.
response.addCookie(firstName);
response.addCookie(lastName);
%>
<html>
<body>
<h1>Setting Cookies</h1>
<u1>
 <br/><b>First Name:</b><%=request.getParameter("first_name")%><br/>br/>
 <br/><b>Last Name:</b><%=request.getParameter("last_name")%>
</body>
</html>
Read cookies
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
```

```
<meta charset="ISO-8859-1">
<title>Read Cookies</title>
</head>
<body>
<h1>Read Cookies </h1>
<%
 Cookie cookie = null;
Cookie[] cookies = null;
cookies = request.getCookies();
if (cookies != null) {
 for (int i = 0; i < cookies.length; i++) {
 cookie = cookies[i];
 out.print("Name: " + cookie.getName() + ", ");
 out.print("Value: " + cookie.getValue() + " <br/>');
} else {
 out.println("<h2>No cookies founds</h2>");
%>
</body>
</html>
```

```
2. Hidden Form Fields
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>Home Page</title>
</head>
<body>
      <%
             java.util.Date today= new java.util.Date();
             java.text.SimpleDateFormat sdf=new java.text.SimpleDateFormat("hh:mm;ss");
             String str =sdf.format(today);
             %>
             <form action ="welcome.jsp" metgod="post">
                    Enter your name:<input type="text" name="username"/>
                    <input type="hidden" value="<%=str%>" name="visittime"/>
                    <hr>>
                    <input type="submit" value="Show Message"/>
             </form>
</body>
</html>
Welcome.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
</head>
<body>
      <%
             String name=request.getParameter("username");
             String time=request.getParameter("visittime");
             %>
             <h3>Hello <%=name%>, Welcome to our Page !</h3>
             You visited Home page at <%= time %>
</body>
</html>
```

Session in JSP

```
index.html
<html>
<head>
<title>Welcome Page: Enter your name</title>
</head>
<body>
<form action="session.jsp">
<input type="text" name="inputname">
<input type="submit" value="click here!!"><br/>>
</form>
</body>
</html>
session.jsp
<html>
<head>
<title>Passing the input value to a session variable</title>
</head>
<body>
<%
String uname=request.getParameter("inputname");
out.print("Welcome "+ uname);
session.setAttribute("sessname",uname);
%>
<a href="output.jsp">Check Output Page Here </a>
</body>
</html>
In this page we are fetching the variable's value from session object and displaying it.
output.jsp
<html>
<head>
<title>Output page: Fetching the value from session</title>
</head>
<body>
< \%
String name=(String)session.getAttribute("sessname");
out.print("Hello User: You have entered the name: "+name);
%>
</body>
</html>
```

```
XMLjsp.jsp
Books.xml
<%@ page contentType = "text/xml" %>
<books>
<book>
<name>Padam History</name>
<author>ZARA</author>
<price>100</price>
</book>
</books>
main.jsp
<%(a) taglib prefix = "c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix = "x" uri="http://java.sun.com/jsp/jstl/xml" %>
<html>
<head>
<title>JSTL x:parse Tags</title>
</head>
<body>
<h3>Books Info:</h3>
<c:import var = "bookInfo" url="http://localhost:8080/books.xml"/>
<x:parse xml = "${bookInfo}" var = "output"/>
<br/>b>The title of the first book is</b>:
<x:out select = "$output/books/book[1]/name" />
<br>
<b > The price of the second book </b>:
<x:out select = "$output/books/book[2]/price" />
</body>
</html>
Getpara.jsp
<html>
<head>
<title>Using GET Method to Read Form Data</title>
</head>
<body>
<h1>Using GET Method to Read Form Data</h1>
<b>First Name:</b>
<%= request.getParameter("first_name")%>
<b>Last Name:</b>
```

```
<%= request.getParameter("last name")%>
</body>
</html>
Output
http://localhost:8080/main.jsp?first_name=ZARA&last_name=ALI in your browser's
Location:box. This will generate the following result –
Using GET Method to Read Form Data
First Name: ZARA
Last Name: ALI
Post.jsp
Hello.htm file -
<html>
<body>
<form action = "main.jsp" method = "POST">
First Name: <input type = "text" name = "first name">
<br/>br />
Last Name: <input type = "text" name = "last name" />
<input type = "submit" value = "Submit" />
</form>
</body>
</html>
<html>
<head>
<title>Using GET and POST Method to Read Form Data</title>
</head>
<body>
<center>
<h1>Using POST Method to Read Form Data</h1>
<u1>
<b>First Name:</b>
<%= request.getParameter("first_name")%>
<b>Last Name:</b>
```

```
<%= request.getParameter("last name")%>
</body>
</html>
Checkbox.jsp
<html>
<body>
<form action = "main.jsp" method = "POST" target = " blank">
<input type = "checkbox" name = "maths" checked = "checked" /> Maths
<input type = "checkbox" name = "physics" /> Physics
<input type = "checkbox" name = "chemistry" checked = "checked" /> Chemistry
<input type = "submit" value = "Select Subject" />
</form>
</body>
</html>
<html>
<head>
<title>Reading Checkbox Data</title>
</head>
<body>
<h1>Reading Checkbox Data</h1>
<b>Maths Flag:</b>
<%= request.getParameter("maths")%>
<b>Physics Flag:</b>
<%= request.getParameter("physics")%>
<b>Chemistry Flag:</b>
<%= request.getParameter("chemistry")%>
</body>
</html>
```

```
usebeanIndex.jsp
<jsp:useBean id="obj" class="com.javatpoint.Calculator"/>
<%
int m=obj.cube(5);
out.print("cube of 5 is "+m);
%>
package com.javatpoint;
public class Calculator{
   public int cube(int n){return n*n*n;}
}
```

```
StudentBeanTest.jsp
<html>
<head>
<title>JSP Page to show use of useBean action</title>
</head>
<body>
<h1>Demo: Action</h1>
<jsp:useBean id="student" class="javabeansample.StuBean"/>
<jsp:setProperty name="student" property="*"/>
< h1 >
name:<jsp:getProperty name="student" property="name"/><br>
empno:<jsp:getProperty name="student" property="rollno"/><br>
</h1>
</body>
</html>
StudentBean.java
package javabeansample;
public class StuBean {
public StuBean() {
private String name;
private int rollno;
public void setName(String name)
this.name=name;
public String getName()
return name;
public void setRollno(int rollno)
this.rollno=rollno;
public int getRollno()
return rollno;
Jspusebean.jsp
Details.java
public class Details {
public Details() {
```

```
private String username;
private int age;
private String password;
public String getUsername() {
return username;
public void setUsername(String username) {
this.username = username;
public int getAge() {
return age;
public void setAge(int age) {
this.age = age;
public String getPassword() {
return password;
public void setPassword(String password) {
this.password = password;
index.jsp
<html>
<head><title>
useBean, getProperty and setProperty example
</title></head>
<form action="userdetails.jsp" method="post">
User Name: <input type="text" name="username"><br>
User Password: <input type="password" name="password"><br>
User Age: <input type="text" name="age"><br>
<input type="submit" value="register">
</form>
</html>
userdetails.jsp
<jsp:useBean id="userinfo" class="beginnersbook.com.Details"></jsp:useBean>
<jsp:setProperty property="*" name="userinfo"/>
You have enterted below details:<br>
<jsp:getProperty property="username" name="userinfo"/><br>
<jsp:getProperty property="password" name="userinfo"/><br>
<jsp:getProperty property="age" name="userinfo" /><br>
Javabean.jsp
```

Javabean.jsp index.html

```
<form action="process.jsp" method="post">
Name:<input type="text" name="name"><br>
Password:<input type="password" name="password"><br>
Email:<input type="text" name="email"><br>
<input type="submit" value="register">
</form>
process.jsp
<jsp:useBean id="u" class="org.sssit.User"></jsp:useBean>
<jsp:setProperty property="*" name="u"/>
Record: <br
<jsp:getProperty property="name" name="u"/><br>
<jsp:getProperty property="password" name="u"/><br>
<jsp:getProperty property="email" name="u" /><br>
User.java
package org.sssit;
public class User {
private String name, password, email;
//setters and getters
JSP directives
Reusing Bean in Multiple Jsp Pages
index.jsp
Same as above.
User.java
Same as above.
process.jsp
<jsp:useBean id="u" class="org.sssit.User" scope="session"></jsp:useBean>
<jsp:setProperty property="*" name="u"/>
Record: <br
<jsp:getProperty property="name" name="u"/><br>
<jsp:getProperty property="password" name="u"/><br>
<jsp:getProperty property="email" name="u" /><br>
<a href="second.jsp">Visit Page</a>
second.isp
<jsp:useBean id="u" class="org.sssit.User" scope="session"></jsp:useBean>
Record: <br
<jsp:getProperty property="name" name="u"/><br>
<jsp:getProperty property="password" name="u"/><br>
```

```
<jsp:getProperty property="email" name="u" /><br>
Using variable value in setProperty tag
process.jsp
<jsp:useBean id="u" class="org.sssit.User"></jsp:useBean>
String name="arjun";
%>
<jsp:setProperty property="name" name="u" value="<%=name %>"/>
Record: <br
<jsp:getProperty property="name" name="u"/><br>
Jspservlet.jsp
<%@ page language="java"
contentType="text/html; charset=windows-1256"
pageEncoding="windows-1256"
%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</p>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1256">
<title>Login Page</title>
</head>
<body>
<form action="LoginServlet">
Please enter your username
<input type="text" name="un"/><br>
Please enter your password
<input type="text" name="pw"/>
<input type="submit" value="submit">
</form>
</body>
</html>
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
/**
Servlet implementation class LoginServlet
public class LoginServlet extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, java.io.IOException {
try
UserBean user = new UserBean();
user.setUserName(request.getParameter("un"));
user.setPassword(request.getParameter("pw"));
user = UserDAO.login(user);
if (user.isValid())
HttpSession session = request.getSession(true);
session.setAttribute("currentSessionUser",user);
response.sendRedirect("userLogged.jsp"); //logged-in page
}
else
response.sendRedirect("invalidLogin.jsp"); //error page
catch (Throwable the Exception)
System.out.println(theException);
public class UserBean {
private String username;
private String password;
private String firstName;
private String lastName;
public boolean valid;
```

```
public String getFirstName() {
return firstName;
public void setFirstName(String newFirstName) {
firstName = newFirstName;
public String getLastName() {
return lastName;
public void setLastName(String newLastName) {
lastName = newLastName;
public String getPassword() {
return password;
public void setPassword(String newPassword) {
password = newPassword;
public String getUsername() {
return username;
public void setUserName(String newUsername) {
username = newUsername;
public boolean isValid() {
return valid;
public void setValid(boolean newValid) {
valid = newValid;
}
CREATE TABLE "REGISTERUSER"
 ( "NAME" VARCHAR2(4000),
  "PASS" VARCHAR2(4000),
```

```
"EMAIL" VARCHAR2(4000),
  "COUNTRY" VARCHAR2(4000)
 )
register.html
<html>
<body>
<form action="servlet/Register" method="post">
Name:<input type="text" name="userName"/><br/>
Password:<input type="password" name="userPass"/><br/>><br/>
Email Id:<input type="text" name="userEmail"/><br/>
Country:
<select name="userCountry">
<option>India</option>
<option>Pakistan
<option>other</option>
</select>
<br/>br/><br/>
<input type="submit" value="register"/>
</form>
</body>
</html>
Register.java
import java.io.*;
import java.sql.*;
import javax.servlet.ServletException;
import javax.servlet.http.*;
public class Register extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
String n=request.getParameter("userName");
String p=request.getParameter("userPass");
String e=request.getParameter("userEmail");
String c=request.getParameter("userCountry");
```

```
try{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection con=DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe", "system", "oracle");
PreparedStatement ps=con.prepareStatement(
"insert into registeruser values(?,?,?,?)");
ps.setString(1,n);
ps.setString(2,p);
ps.setString(3,e);
ps.setString(4,c);
int i=ps.executeUpdate();
if(i>0)
out.print("You are successfully registered...");
}catch (Exception e2) {System.out.println(e2);}
out.close();
<web-app>
<servlet>
<servlet-name>Register/servlet-name>
<servlet-class>Register/servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>
<url>pattern>/servlet/Register</url-pattern></url-pattern>
</servlet-mapping>
<welcome-file-list>
  <welcome-file>register.html</welcome-file>
</welcome-file-list>
</web-app>
Sampleproject
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</p>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>User Data</title>
</head>
<style>
div.ex {
     text-align: right width:300px;
     padding: 10px;
     border: 5px solid grey;
     margin: 0px
</style>
<body>
     <h1>Registration Form</h1>
     <div class="ex">
           <form action="RegistrationController" method="post">
                Full Name
                           <input type="text" name="fullname" />
                      Address
                           <input type="text" name="address" />
                       Age 
                           <input type="text" name="age" />
                      Qualification
                           <input type="text" name="qual" />
                      Percentage
                           <input type="text" name="percent" />
                      Year Passed
                           <input type="text" name="yop" />
                      <input type="submit" value="register" />
```

```
</form>
       </div>
</body>
</html>
web.xml mapping
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
       xmlns="http://java.sun.com/xml/ns/javaee"
       xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app 2 5.xsd"
       id="WebApp ID" version="2.5">
       <display-name>registration</display-name>
       <welcome-file-list>
              <welcome-file>registration.jsp</welcome-file>
       </welcome-file-list>
       <servlet>
              <description></description>
              <display-name>RegistrationController</display-name>
              <servlet-name>RegistrationController/servlet-name>
              <servlet-class>com.candidjava.RegistrationController/servlet-class>
       </servlet>
       <servlet-mapping>
              <servlet-name>RegistrationController</servlet-name>
              <url-pattern>/RegistrationController</url-pattern>
       </servlet-mapping>
</web-app>
Registration Servlet code
package com.candidjava;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
* Servlet implementation class UserDataServlet
public class RegistrationController extends HttpServlet {
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
              // TODO Auto-generated method stub
              response.setContentType("text/html");
              PrintWriter out = response.getWriter();
              String name = request.getParameter("fullname");
              String Addr = request.getParameter("address");
              String age = request.getParameter("age");
              String Qual = request.getParameter("qual");
              String Persent = request.getParameter("percent");
              String Year = request.getParameter("yop");
if(name.isEmpty()||Addr.isEmpty()||age.isEmpty()||Qual.isEmpty()||Persent.isEmpty()||Year.isEm
pty())
                     RequestDispatcher rd = request.getRequestDispatcher("registration.jsp");
                     out.println("<font color=red>Please fill all the fields</font>");
                     rd.include(request, response);
              else
                     RequestDispatcher rd = request.getRequestDispatcher("home.jsp");
                     rd.forward(request, response);
       }
}
Success page (home.jsp)
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</p>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Display</title>
<style>
table#nat{
       width: 50%;
       background-color: #c48ec5;
```

```
</style>
</head>
<body>
<% String name = request.getParameter("fullname");</pre>
     String Addr = request.getParameter("address");
     String age = request.getParameter("age");
     String Qual = request.getParameter("qual");
     String Persent = request.getParameter("percent");
     String Year = request.getParameter("yop"); %>
Full Name
     <\td><\function{\text{/td}}
Address
     <%= Addr %>
 Age 
     <%= age %>
Qualification
     Percentage
     <% = Persent % >
Year of Passout
     <%= Year %>
</body>
</html>
Screenshot
Requestdispacher.jsp
```

```
Requestdispacher.jsp
loginform.jsp
<head>
<title>Request Dispatcher</title>
```

```
</head>
<body>
<h2 align="center">Request Dispatcher in Jsp</h2>
<form method="post" action="dispatcher.jsp" >
Name:
<input type="text" name="fname"/>
Password:
<input type="password" name="pwd"/>
<input type="submit" value="Submit"/>
</form>
</body>
</html>
dispatcher.jsp
<html>
<head>
<title>Request Dispatcher</title>
</head>
<%
String st=request.getParameter("fname");
String st1=request.getParameter("pwd");
if(st=="")
getServletContext().getRequestDispatcher("/form.jsp").forward(request, response);
else{
getServletContext().getRequestDispatcher("/welcome.jsp").forward(request, response);
%>
</html>
welcome.jsp
<html>
<body>
<h2 align="center">Welcome to View Page.</h2>
<h3 align="center"><font color="darklight">UserName:-
<%=request.getParameter("fname")%></font></h3>
<h3 align="center"><font color="darklight">Password:-
<%=request.getParameter("pwd")%></font></h3>
</body>
```

```
</html>
JSTL XML tag
<x:forEach var="book"
  select="$applicationScope:booklist/books/*">
 <c:set var="bookId">
      <x:out select="$book/@id"/>
    </c:set>=
    <c:url var="url"
     value="/bookdetails" >
        <c:param name="bookId" value="${bookId}" />
        <c:param name="Clear" value="0" />
      </c:url>
      <a href="${url}">
      <strong><x:out select="$book/title"/>&nbsp;
      </strong></a>
    <c:set var="price">
        <x:out select="$book/price"/>
      <fmt:formatNumber value="${price}" type="currency"/>
       
    <c:url var="url" value="/catalog" >
      <c:param name="Add" value="${bookId}" />
    </c:url>
    <strong><a href="${url}">&nbsp;
     <fmt:message key="CartAdd"/>&nbsp;</a>
      <fmt:message key="By"/> <em>
      <x:out select="$book/firstname"/>&nbsp;
      <x:out select="$book/surname"/></em>
</x:forEach>
Transformation Tags
JSTL SQL tag
<c:set var="sufficientInventory" value="true" />
<sql:transaction>
 <c:forEach var="item" items="${sessionScope.cart.items}">
   <c:set var="book" value="${item.item}" />
    <c:set var="bookId" value="${book.bookId}" />
```

```
<sql:query var="books"
       sql="select * from PUBLIC.books where id = ?" >
       <sql:param value="${bookId}"/>
    </sql:query>
    <jsp:useBean id="inventory"</pre>
       class="database.BookInventory" />
    <c:forEach var="bookRow" begin="0"
       items="${books.rowsByIndex}">
       <jsp:useBean id="bookRow" type="java.lang.Object[]" />
       <jsp:setProperty name="inventory" property="quantity"</pre>
         value="${bookRow[7]}" />
       <c:if test="${item.quantity > inventory.quantity}">
         <c:set var="sufficientInventory" value="false" />
         <h3><font color="red" size="+2">
         <fmt:message key="OrderError"/>
          There is insufficient inventory for
          <i>${bookRow[3]}</i>.</font></h3>
       </c:if>
    </c:forEach>
  </c:forEach>
  <c:if test="${sufficientInventory == 'true'}" />
    <c:forEach var="item" items="${sessionScope.cart.items}">
      <c:set var="book" value="${item.item}" />
      <c:set var="bookId" value="${book.bookId}" />
       <sql:query var="books"
          sql="select * from PUBLIC.books where id = ?" >
         <sql:param value="${bookId}" />
       </sql:query>
       <c:forEach var="bookRow" begin="0"
         items="${books.rows}">
               <sql:update var="books" sql="update PUBLIC.books set
           inventory = inventory - ? where id = ?" >
           <sql:param value="${item.quantity}" />
           <sql:param value="${bookId}"/>
         </sql:update>
       </c:forEach>
    </c:forEach>
    <h3><fmt:message key="ThankYou"/>
       ${param.cardname}.</h3><br>
   </c:if>
</sql:transaction>
```

query Tag Result Interfac