DFP 50463 JAVA-BASED APPLICATION DEVELOPMENT

LAB ACTIVITY 6

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Task 1 : Using *out* Object for Displaying Output to Browser

Instructions

1. Create a JSP file named outDemo.jsp.
2. Insert the following code:

```
<%--
   Document   : outDemo
   Created on : Aug 10, 2026, 9:06:17 PM
   Author     : IqaNatalya
--%>

<%@ page language="java" contentType="text/html" %>

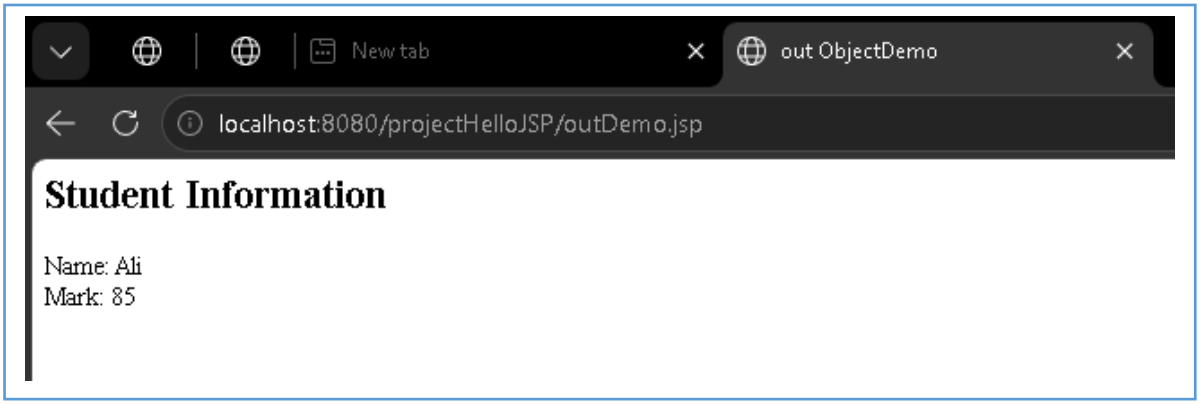
<html>
   <head>
      <title>out ObjectDemo</title>
   </head>

   <body>
      <%
         String name = "Ali";
         int mark = 85;

         out.println("<h2>Student Information</h2>");
         out.println("Name: " + name + "<br>");
         out.println("Mark: " + mark);
      %>
   </body>
</html>
```

3. Run the project on the server.
4. Observe the output displayed in the browser.

Activity: Screenshot Output



Task 2 : Using *request* Object to Retrieve Data Entered by User Through Html Form.

Instructions

1. Create form.jsp

```
<%--
   Document   : form
   Created on : Aug 10, 2026, 9:13:56 PM
   Author     : IqaNatalya
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
   <title>Student Form</title>
</head>
<body>
   <form action="process.jsp" method="post">
      Name:
      <input type="text" name="studentName">
      <br><br>
      Course:
      <input type="text" name="course">
      <br><br>
      <input type="submit" value="Submit">
   </form>
</body>
</html>
```

2. Create process.jsp

```
<%--
   Document   : process
   Created on : Aug 10, 2026, 9:16:48 PM
   Author     : IqaNatalya
--%>

<%@ page language="java" contentType="text/html" %>

<html>
<head>
   <title>Process Form</title>
</head>

<body>

   <%
      String name = request.getParameter("studentName");
      String course = request.getParameter("course");
   %>

   <h2>StudentDetails</h2>
   Name: <%= name %>
   <br>

   Course: <%= course %>

</body>
</html>
```

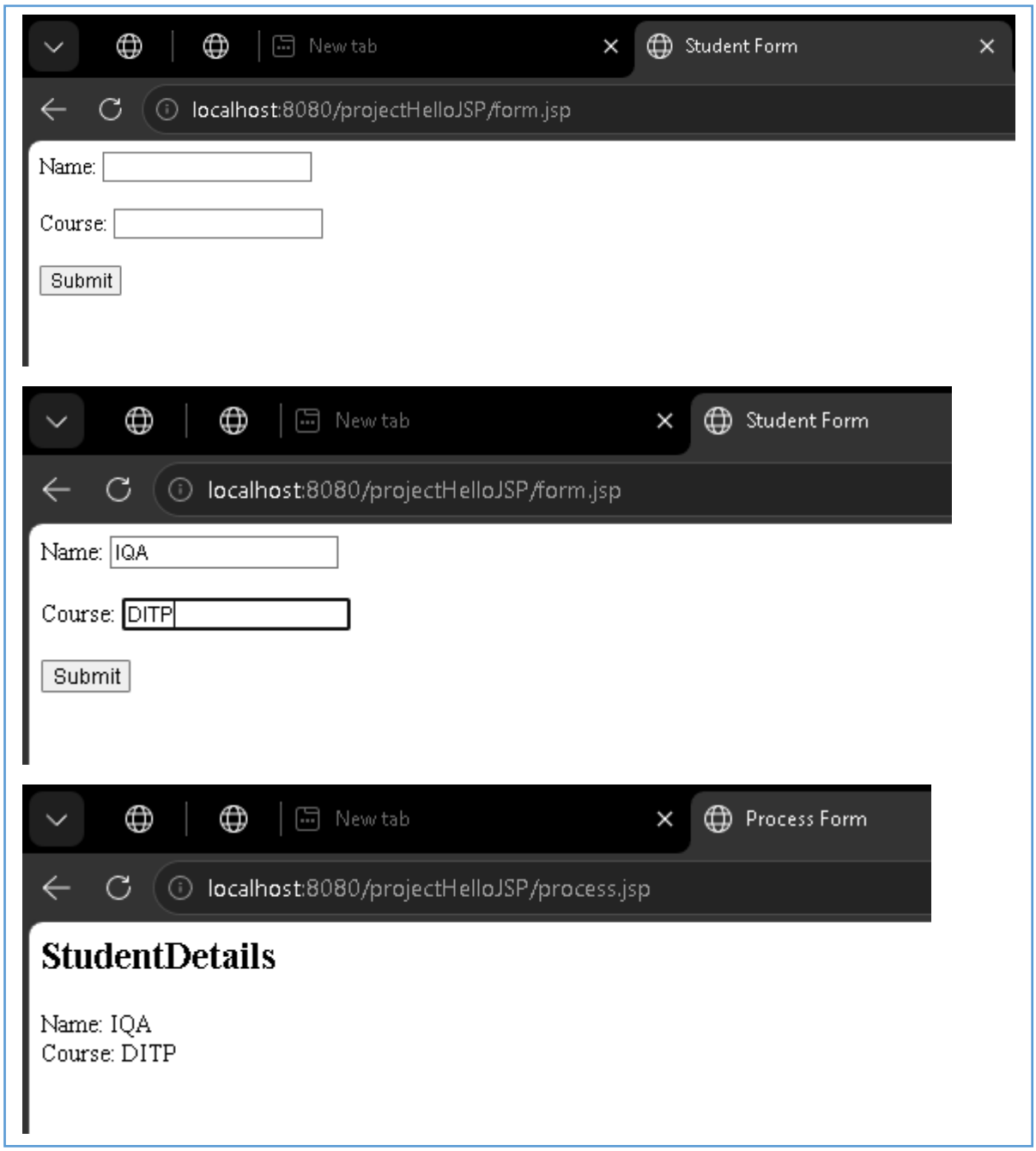
3. Run form.jsp.

4. Enter student information.

5. Submit the form.

6. Observe how the request object retrieves data.

Activity: Screenshot Output



Task 3 : Using *session* Object to Store User Information During a Session.

Instructions

1. Create login.jsp

```
<%--
   Document   : login
   Created on : Aug 10, 2026, 9:26:39 PM
   Author     : IqaNatalya
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
   <title>Login</title>
</head>

<body>
   <form action="welcome.jsp" method="post">
      Username:
      <input type="text" name="username">

      <br><br>

      <input type="submit" value="Login">
   </form>
</body>
</html>
```

2. Create welcome.jsp

```
<%--
   Document   : welcome
   Created on : Aug 10, 2026, 1:13:42 PM
   Author     : IqaNatalya
--%>

<%@ page language="java" contentType="text/html" %>

<html>
<head>
   <title>Welcome</title>
</head>

<body>

   <%
      String username= request.getParameter("username");

      session.setAttribute("user", username);
   %>

   <h2>Welcome</h2>
   Username: <%= session.getAttribute("user") %>

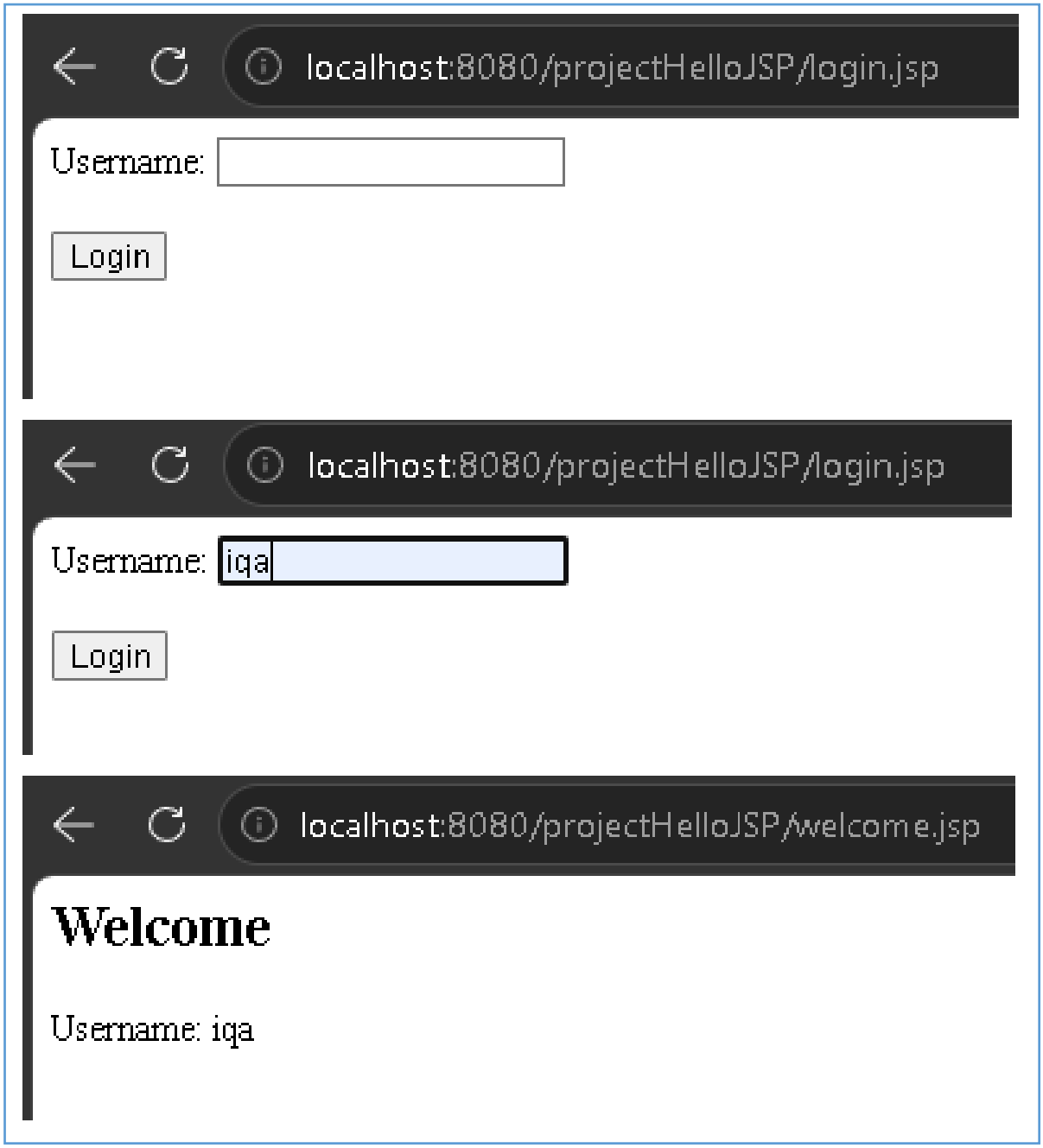
</body>
</html>
```

3. Run login.jsp.

4. Enter username.

5. Verify that the username is stored in session.

Activity: Screenshot Output



Task 4 : Using *application* Object to Share Data Between Users in The Application.

1. Create visitor.jsp

```
<%--
   Document   : visitor
   Created on : Aug 10, 2026, 9:51:09 PM
   Author     : IqaNatalya
--%>

<%@ page language="java" contentType="text/html" %>

<html>
<head>
   <title>Visitor Counter</title>
</head>

<body>

   <%
      Integer counter = (Integer)application.getAttribute("counter");

      if(counter == null)
      {
         counter = 1;
      }
      else
      {
         counter++;
      }

      application.setAttribute("counter", counter);
   %>

   <h2>Visitor Counter</h2>
   Total Visitors: <%= counter%>

</body>
</html>
```

2. Run visitor.jsp.

3. Refresh the page several times.

4. Observe the visitor count increasing.

Activity: Screenshot Output

