

PRACTICAL 6 (E & F) – JSP APPLICATIONS + GENERAL SETUP GUIDE

GENERAL SETUP FOR ALL PRACTICAL 6 (JSP) PROGRAMS

This section explains the complete setup required to execute all JSP practicals (6A to 6F) using NetBeans IDE 7 and Apache Tomcat Server.

REQUIRED SOFTWARE

- NetBeans IDE 7.x
- JDK 7 or JDK 8
- Apache Tomcat Server 7.x
- MySQL Server (for database-based JSP programs)
- MySQL Connector/J (JDBC Driver)

STEP 1: INSTALL AND CONFIGURE JDK

1. Install JDK 7 or JDK 8 on the system
2. Set JAVA_HOME environment variable
3. Verify installation using command: `java -version`

STEP 2: CONFIGURE APACHE TOMCAT IN NETBEANS

1. Open NetBeans IDE 7
2. Click Tools → Servers → Add Server
3. Select Apache Tomcat or TomEE
4. Browse Tomcat installation directory
5. Set username and password
6. Click Finish

STEP 3: CREATE WEB APPLICATION PROJECT

1. File → New Project
2. Java Web → Web Application
3. Enter project name
4. Select Apache Tomcat Server
5. Finish

STEP 4: ADD MYSQL CONNECTOR JAR

1. Right-click project → Properties
2. Libraries → Add JAR/Folder
3. Select mysql-connector.jar

4. Click OK

PRACTICAL 6(E): APPLICATION FORM FOR CHANGE OF STUDY CENTER

AIM

To design a JSP-based application form for students requesting a change of study center.

THEORY

JSP is used to create dynamic forms where user input is collected and displayed or processed. In this practical, a study center change request form is developed.

SOURCE CODE – studycenter.jsp

```
<html>
<body>
<h2>Application for Change of Study Center</h2>
<form action="submit.jsp" method="post">
Student Name: <input type="text" name="name"><br><br>
Enrollment No: <input type="text" name="enroll"><br><br>
Current Study Center: <input type="text" name="current"><br><br>
Requested Study Center: <input type="text" name="requested"><br><br>
Reason:<br>
<textarea name="reason"></textarea><br><br>
<input type="submit" value="Submit Application">
</form>
</body>
</html>
```

SOURCE CODE – submit.jsp

```
<html>
<body>
<h2>Application Submitted</h2>
<%
String name = request.getParameter("name");
String enroll = request.getParameter("enroll");
String current = request.getParameter("current");
String requested = request.getParameter("requested");
String reason = request.getParameter("reason");
%>

Name: <%= name %><br>
Enrollment No: <%= enroll %><br>
Current Center: <%= current %><br>
Requested Center: <%= requested %><br>
Reason: <%= reason %><br>
</body>
</html>
```

PRACTICAL 6(F): JSP TAGS – DECLARATION, SCRIPTLET, DIRECTIVE, EXPRESSION, HEADER & FOOTER

AIM

To demonstrate the use of JSP declaration, scriptlet, directive, expression, and inclusion of header and footer files.

THEORY

JSP provides various tags to embed Java code and reusable components within HTML pages. This practical demonstrates all major JSP tags and page modularization.

SOURCE CODE – header.jsp

```
<html>
<body>
<h2>Welcome to JSP Demonstration</h2>
<hr>
```

SOURCE CODE – footer.jsp

```
<hr>
<p>© 2026 MCA JSP Practical</p>
</body>
</html>
```

SOURCE CODE – demo.jsp

```
<%@ page language="java" %>
<%@ include file="header.jsp" %>

<%! int count = 10; %>

<%
int square = count * count;
%>

Value: <%= count %><br>
Square: <%= square %>

<%@ include file="footer.jsp" %>
```

RESULT

Thus, JSP Application Form and JSP Tags were successfully demonstrated along with complete environment setup for all JSP practicals.