Aim

To demonstrate the use of JSTL Core Tags such as <c:out>, <c:set>, <c:if>, <c:choose>, <c:when>, <c:otherwise>, and <c:forEach>.

Technologies Used

JSP, JSTL Library, Apache Tomcat

Directory Structure

```
JSTLDemo/
|
+- jstl-demo.jsp
+- WEB-INF/
+- web.xml
+- lib/
+- jstl.jar
```

Required JARs (Place in WEB-INF/lib/)

jakarta.servlet.jsp.jstl-api-*.jar

jakarta.servlet.jsp.jstl-impl-*.jar

jstl-demo.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<head><title>JSTL Core Tag Demo</title></head>
<body>
<h2>JSTL Core Tag Examples</h2>
<!-- Set & Output -->
<c:set var="name" value="Madhu" />
Hello <c:out value="\{name\}" />!
<!-- Conditional Rendering -->
<c:if test="${name == 'Madhu'}">
 Welcome, Madhu!
</c:if>
<!-- Choose/When/Otherwise -->
<c:set var="role" value="admin" />
<c:choose>
 <c:when test="${role == 'admin'}">
   You have administrative privileges.
 </c:when>
 <c:otherwise>
   You are a guest user.
 </c:otherwise>
</c:choose>
<!-- Looping -->
<c:set var="colors" value="${['Red', 'Green', 'Blue']}" />
<l
 <c:forEach var="color" items="${colors}">
   ${color}
 </c:forEach>
</body>
</html>
```

web.xml

```
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
    version="3.1">
```

How to Run

- 1. Download required JSTL JARs and place them in `WEB-INF/lib`.
- 2. Deploy the `JSTLDemo` folder in Tomcat's `webapps` directory.
- 3. Start Tomcat and visit: http://localhost:8080/JSTLDemo/jstl-demo.jsp

Expected Output

Hello Madhu!

Welcome, Madhu!

You have administrative privileges.

- Red
- Green
- Blue

Result

Successfully demonstrated key JSTL core tags for setting variables, conditional checks, choices, and looping.