

## **JSP EL & JSTL PART-2**

### **Function Tags:**

- 1) fn:contains()
- 2) fn:containsIgnoreCase()
- 3) fn:endsWith()
- 4) fn:startsWith()
- 5) fn:toUpperCase()
- 6) fn:toLowerCase()
- 7) fn:substring()
- 8) fn:substringAfter()
- 9) fn:substringBefore()
- 10) fn:replace()
- 11) fn:length()
- 12) fn:split()
- 13) fn:join()
- 14) fn:trim()
- 15) fn:indexOf()
- 16) fn:escapeXml()

In order to use the above tags we must include the following taglib directive in a JSP.

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
```

### **Example1:**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
```

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
```

```
<c:set var="s" value="Welcome to JSTL"/>
<c:if test="${fn:contains(s, 'JSTL')}">
<c:out value="Yes, Given string contains JSTL" />
</c:if>
```

### **Example2:**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<c:set var="s" value="Demo.java"/>
<c:if test="${fn:endsWith(s, '.java')}">
<c:out value="Yes, it is a Java file" />
</c:if>
```

### **Example3:**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
${fn:toLowerCase("WELCOME")}
```

### **Example4:**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<c:set var="s" value="Welcome to JSTL"/>
${fn:substring(s, 3, 6)}
${fn:substringAfter(s, "Welcome")}
${fn:substringBefore(s, "to")}
```

### **Example5:**

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
```

```
<c:set var="s" value="Welcome to JSTL"/>
${fn:replace(s,"JSTL","JSP")}
${fn:length(s)}
```

### Example6:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<c:set var="str1" value="Welcome-to-JSTL."/>
<c:set var="str2" value="${fn:split(str1, '-')}"/>
<c:set var="str3" value="${fn:join(str2, ' ')}"/>
${str3}
```

### Example7:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<c:set var="s" value=" Welcome to JSP "/>
${fn:trim(s)}
```

### Example8:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<c:set var="s1" value="Welcome to JSP"/>
<c:set var="s2" value="<message>Welcome to JSP</message>"/>
${fn:indexOf(s1,"JSP")}<br>
${s2}<br>
${fn:escapeXml(s2)}
```

## Formatting Tags:

1) <fmt:formatDate>

2) <fmt:formatNumber>

In order to use the above tags we must include the following taglib directive in a JSP.

## Example:

```
<html>

<body bgcolor=yellow text=blue>

<h1>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<c:set var="d" value="<%= new java.util.Date() %>" />
<fmt:formatDate type="date" value="${d}" /><br>
<fmt:formatDate type="time" value="${d}" /><br>
<fmt:formatDate type="both" value="${d}" /><br>
<fmt:formatDate type="date" dateStyle="short" value="${d}" /><br>
<fmt:formatDate type="date" dateStyle="medium" value="${d}" /><br>
<fmt:formatDate type="date" dateStyle="long" value="${d}" />
<fmt:formatDate type="time" timeStyle="short" value="${d}" /><br>
<fmt:formatDate type="time" timeStyle="medium" value="${d}" /><br>
<fmt:formatDate type="time" timeStyle="long" value="${d}" />

</h1>

</body>

</html>
```

## XML Tags:

- 1) <x:parse>
- 2) <x:if>
- 3) <x:out>
- 4) <x:choose>
- 5) <x:when>
- 6) <x:otherwise>

In order to use the above tags we must include the following taglib directive in a JSP.

## Example:

### emp.xml

```
<emp-info>
    <emp>
        <emp-no>101</emp-no>
        <name>aaa</name>
        <salary>5000.00</salary>
    </emp>
    <emp>
        <emp-no>102</emp-no>
        <name>bbb</name>
        <salary>5500.00</salary>
    </emp>
</emp-info>
```

**emp.jsp**

```
<html>
<body bgcolor=green text=yellow>
<h1>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/xml" prefix="x" %>
<c:import url="emp.xml" var="e" />
<x:parse xml="$e" var="print" />
<x:if select="$print/emp-info/emp[1]/emp-no=101" >
    <x:out select="$print/emp-info/emp[1]/name" />
    <x:out select="$print/emp-info/emp[1]/salary" />
</x:if>
</h1>
</body>
</html>
```

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