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JSP

6.JSP Scripting Elements

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JSP Scripting Elements

The main purpose of **Jsp Scripting Elements** is to allow java code directly into the present Jsp pages.

There are 3 types of Scripting Elements.

1. Declarations
2. Scriptlets
3. Expressions

1. Declarations:

It can be used to provide all the java declarations like variable declarations, method definitions, classes declaration and so on.

Syntax: <%!

Java Declarations

%>

If we provide any java declarations by using declaration scripting element then that all java declarations will be available to the translated servlet as class level declarations.

2. Scriptlets:

This Scripting Element can be used to provide a block of java code.

Syntax:<%

-------- } Block of Java code

%>

If we provide any block of java code by using scriptlets then that code will be available to translated servlet inside _jspService(_,_) method.

3. Expressions:

This is scripting element can be used to evaluate the single java expression and display that expression resultant value onto the client browser.

Syntax:<%=Java Expression%>

If we provide any java expression in expression scripting element then that expression will be available to translated servlet inside _JspService(_,_) method as a parameter to out.write() method.

Ex: out.write(Java Expression)**;**

first.jsp:

```
<%@page import="java.util.*"%>
<%!
Date d=null;
String date=null;
%>
<%
d=new Date();
date=d.toString();
%>
<html>
<body bgcolor="lightyellow">
<center><b><font size="6" color="red"><br><br>
Today Date : <%=date%>
</font></b></center></body>
</html>
```

Translated Servlet:

```
-------------
-------------
import java.uitl.*;
public final class first_jsp extends HttpJspBase implements JspSourceDependent
{
   Date d=null;
   String date=null;
public void _jspInit()throws ServletException
   {   }
public void _jspDestroy()
   {   }
public void _jspService(HttpServletRequest req, HttpServletResponse res)throws SE, IOE
   {
      d=new Date();
date=d.toString();
out.write("<html>");
out.write("<body bgcolor='lightyellow'>");
out.write("<center><b><font size='6' color='red'><br><br>");
out.write("Today Date.....");
out.write(date);
out.write("</font></b></center></body></html>");
}
}
```

Jsp Comments:

In Jsp pages, we are able to use the following 3 types of comments.

1. XML-Based Comments
2. Jsp-Based Comments
3. Java-Based Comments inside Scripting Elements

1. XML-Based Comments:

```
<!--
      --------
      --------   Description
      --------
   -->
```

2. Jsp-Based Comments:

```
<%--
      --------
      --------   Description
      --------
   --%>
```

3. Java-Based Comments inside Scripting Elements:

1. Single Line Comment:

```
//--------Description---------
```

2. Multiline Comment:

```
/*
      --------
      --------   Description
      --------
   */
```

3. Documentation Comment:

```
/**
        --------
        --------   Description
        --------
         */
```

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