

```

1 1. JSP 10개의 구성요소
2     1)scriptlet
3         <% %>
4
5     2)expression
6         <%= %>
7
8     3)declaration
9         <%! %>
10
11    4)comment
12        -html <!-- -->
13        -Java //, /* ~ */
14        -JSP <%-- --%>
15
16    5)directive
17        <%@ %>
18        -@page, @tablib, @include
19
20    6)implicit object
21        -9개의 내장객체(기본객체)
22
23    7)Action Tag
24        <jsp:~ />
25        -<jsp:include />
26        -<jsp:forward />
27        -<jsp:useBean />
28        -<jsp:getProperty />
29        -<jsp:setProperty />
30
31    8)EL & JSTL
32
33    9)Custom Tag
34
35    10)Filter & Listener
36
37
38 2. Lab
39    1)comment.jsp
40        <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
41        <!doctype>
42        <html>
43        <head>
44        <meta charset="UTF-8">
45        <title>Insert title here</title>
46        </head>
47        <body>
48        <%--
49            <!-- <font size='7' face="Arial" color='red'>Hello</font> <br />-->
50            <div style="background-color:yellow;width=300px;height=300px">
51            Hi
52            </div> <br />
53            <%
54                String str = "Hello, World";
55                //str += "안녕하세요";
56                out.print("<br />" + str + "<br />");
57            %>--%>
58        </body>
59        </html>
60
61    2)expressiondemo.jsp
62        <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" import="java.util.Calendar"
63        %>
64        <%
65            Calendar now = Calendar.getInstance();
66            int hour = now.get(Calendar.HOUR_OF_DAY);
67        %>

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67     <%=100 + 200; %> <br />
68     <%=(hour >= 12)? "PM" : "AM" %>
69
70 3)expressiondemo1.jsp
71     <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" import="java.util.Calendar"
72     %>
73     <%
74         Calendar now = Calendar.getInstance();
75         int hour = now.get(Calendar.HOUR);
76     %>
77     <body bgcolor='yellow'>
78         Math.PI = <%=Math.PI %> <br />
79         Integer's Max value = <%=Integer.MAX_VALUE %> <br />
80         1부터 10까지의 합 = <%=1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 %> <br />
81         오전 / 오후 ? <%=(hour < 12) ? "AM" : "PM" %>
82     </body>
83
84 4)scriptletdemo.jsp
85     <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
86     <style>
87         table.c {margin-left:auto;margin-right:auto;
88             width:500px;border-width:1px;border-style:solid;height:360px}
89         th {border : 1px solid}
90         td {border :1px solid}
91         td.d {border-width:0px 0px 1px 0px; border-style:solid}
92         th.a {width:50px}
93         th.b {border-width:0px 0px 1px 0px; border-style:solid}
94         tr {height: 40px}
95     </style>
96     <table class="c">
97         <tr>
98             <th class="a"> 단 </th>
99             <th> 값 </th>
100         </tr>
101         <tr>
102             <td align='center'>
103                 <table width="50" border="0" cellspacing="0">
104                     <% for(int i = 2 ; i < 10 ; i++){ %>
105                         <tr>
106                             <th class="b"><font color='blue'> <%=i %> </font> </th>
107                         </tr>
108                     <% } %>
109                 </table>
110             </td>
111             <td align='center'>
112                 <table border='0' width="450" cellspacing="0">
113                     <% for(int i = 2 ; i < 10 ; i++){ %>
114                         <tr>
115                             <% for(int j = 1 ; j < 10 ; j++){ %>
116                                 <td align='center' width="50" class="d"> <%=i * j %> </td>
117                             <% //j end %>
118                         </tr>
119                     <% }//i end %>
120                 </table>
121             </td>
122         </tr>
123     </table>
124
125 5)gugudan.jsp
126     <%@ page contentType="text/html; charset=utf-8" %>
127     <html>
128     <body>
129         <center>
130         <table border=1 bordercolor="red" cellpadding=0 cellspacing=0>
131             <tr>
132                 <% for(int i=2;i<=5;i++){ %>
133                     <td align="center" width="100"> <%=i %> 단 </td>

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133         <% } %>
134     </tr>
135     <tr>
136         <% for(int i=2;i<=5;i++){ %>
137         <td>
138             <% for(int j=1;j<=9;j++){ %>
139
140                 <%=i %> X <%=j %> = <%=i*j %> <BR>
141
142             <% } %>
143         </td>
144         <% } %>
145     </tr>
146 <!-- 둘째 행 -->
147 <tr>
148     <% for(int i=6;i<=9;i++){ %>
149     <td align="center" width="100"> <%=i %> 단 </td>
150     <% } %>
151 </tr>
152 <tr>
153     <% for(int i=6;i<=9;i++){ %>
154     <td>
155         <% for(int j=1;j<=9;j++){ %>
156
157             <%=i %> X <%=j %> = <%=i*j %> <br />
158
159         <% } %>
160     </td>
161     <% } %>
162 </tr>
163 </table>
164 </center>
165 </body>
166 </html>

```

#### 6) declaration.jsp

```

169 <%@ page contentType="text/html; charset=utf-8" %>
170 <html>
171 <body>
172     <%!
173         String msg = null; //member variable
174         public int checkLength(String str){ //member method
175             return str.length();
176         }
177     %>
178
179     <% msg = "Good Morning"; %>
180
181     <%=msg %>의 문자의 길이는 <%=checkLength(msg) %>자 입니다.
182 </body>
183 </html>

```

#### 7) declarationdemo1.jsp

```

186 <%@ page language="java" contentType="text/html; charset=utf-8"
187     pageEncoding="utf-8"%>
188 <%!
189     private int sum(int a, int b){
190         return a + b;
191     }
192 %>
193 <%
194     int a = Integer.parseInt(request.getParameter("num1"));
195     int b = Integer.parseInt(request.getParameter("num2"));
196 %>
197 <%= sum(a, b) %>

```

#### 8) pagedirectivedemo.jsp

```

200 contentContentType="text/html;charset=utf-8" %>
201 <%% page import="java.util.Date" %>
202 <%% page import="java.text.SimpleDateFormat" %>
203 <%
204     String pattern = "HH시 mm분 ss초";
205     SimpleDateFormat sdf = new SimpleDateFormat(pattern);
206     String str = sdf.format(new Date());
207 %>
208 귀하가 방문하신 시간은 <font color='red' size='7'> <b>
209 <%=str %> </b> </font>입니다.
210
211 9)date.jsp
212 <%% page import="java.util.Date, java.text.DateFormat" %>
213 <html>
214 <body>
215     <%
216         //scriptlet coding
217         Date now = new Date();
218         String str = DateFormat.getDateTimelInstance().format(now);
219         String today = new String(str.getBytes("KSC5601"), "ISO8859_1");
220     %>
221     <%=today %>
222 </body>
223 </html>

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[illegible]

### 232 3. JSP의 source를 보려면

C:\WebHome\w.metadata\w.plugins\w.org.eclipse.wst.server.core\w.tmp0\w.work\w.Catalina\w.localhost\w.PROJECTNAME\w.org\w.apache\w.jsp