

JSP Introduction Quiz

1. What is the main value of Java Server Pages?

Java Server Pages (JSP) separates html from java. It supports dynamic content, allowing developers to insert java code in HTML pages by making use of special JSP tags.

2. How are JSP pages related to servlets?

When client request for JSP page, the JSP engine first checks whether the page is compiled into java class or not. If not, the JSP is translated into servlet. Then, the servlet is compiled into java class to produce the response.

3. How are JSP pages related to HTML?

JSP includes html with a little java. JSP runs on the server and HTML on the browser.

4. Give an example of a JSP scriptlet and show how it will look in the JSP servlet.

JSP scriptlet	JSP servlet
<pre><html> <body> <% out.println(Counter.getCount()); %> </body></html></pre>	<pre>out.print("<html><body>"); out.println(Counter.getCount()); out.print("</html></body>");</pre>

5. Give an example of a JSP declaration and show how it will look in the JSP servlet.

JSP declaration	JSP servlet
<pre><html> <body> <%! int count = 0; %> </body></html></pre>	<pre>out.print("<html><body>"); int count = 0; out.print("</html></body>");</pre>

6. Give an example of a JSP comment and show how it will look in the JSP servlet.

JSP comment	JSP servlet
<pre><%-- comment --%></pre>	<pre>// comment "OR" /* comment */</pre>

7. Give an example of a JSP expression and show how it will look in the JSP servlet.

JSP expression	JSP servlet
<code><%= ++count %></code>	<code>out.print(++count);</code>

8. Give an example of a JSP directive and show how it will look in the JSP servlet.

JSP directive	JSP servlet
<code><%@ page import="java.util.*" %></code>	<code>Import java.util.*;</code>

9. Explain how an EL expression is evaluated.

`${something}`: container evaluates this as follows:

- checks page scope for an attribute named "something",
 - if found use it.
- otherwise check request scope for an attribute named "something",
 - if found use it.
- otherwise check session scope for an attribute named "something",
 - if found use it.
- otherwise check application scope for an attribute named "something",
 - if found use it.
- otherwise ignore the expression.

10. Explain how servlet attributes are involved in EL expressions.

EL expressions assume that the first identifier in the expression is the key of a servlet attribute, and searches through the different attribute scopes using that key.

11. Explain how servlets and JSPs use request dispatch to interact.

The servlet asks the `HttpRequest` for `RequestDispatcher`, passing in a relative path to the view JSP using `getRequestDispatcher()` method. Then again, it calls `forward()` method on the `RequestDispatcher`, to tell the JSP to take over the request.