

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

The main purpose of JSP is to separate business logic (Java code) from presentation layer(html).

2. How are JSP pages related to servlets?

JSP are converted or translated into servlet code by the web Container.

3. How are JSP pages related to HTML?

JSP contain Html code and a little bit of java code.

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

`<% count=count*9; %>`

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

`<%! Number=0; %>`

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

`<!--This is a JSP comment--%>`

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

`$ {person.age}`

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

`<%@ page import=" java. util. ArrayList" %>`

9. Explain how an EL expression is evaluated.

El expression expects a java expression, this expression is put inside the out.print of the service method which wraps the java expression into the out.print (...java expression...).

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

El expression evaluates the expression and writes it out to the HTML page at its location on the page. Attributes are where web app stores model values, which are values computed in model and then accessed in page for display. There is no model code on the JSP page

\${attribute}. The container first checks the attribute its scope where it exists: starting from page level, to Request level, to Session and as least at application level.

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

JSP used in the MVC model ->there is a servlet that is the controller, which sets the attribute values based on the business logic (Model), then dispatches this request to a servlet generated by a JSP page. JSP servlet retrieves the attribute values and inserts them into the designated places in the HTML(View) which is sent to the browser.