Lifecycle of a JSP page
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1. Just like a Servlet has a specific lifecycle, similarly a JSP page also has a lifecycle.

2. There are 7 phases in the life of a JSP page and they are:

 a) **Translating Phase:** This occurs on the first request when container translate our .jsp page into a Servlet as .java file.

 b) **Compling Phase:** This also occurs on the first request when the .java file gets converted into .class file.

 c) **Loading Phase:** This also occurs during the first request when the container load .class file into Server's memory.

 d) **Instantiation Phase**: This also occurs during the first request when the container instantiate i.e. creates an object of the Servlet class.

 e) **Initialization Phase**: Like others this phase also occurs during the first request and in this phase the container calls the method **jspInit()**.

 f) **Request processing Phase**: This phase occurs on every request and the container calls the method **_jspService()** in this phase.

g) Destroying Phase: This is the last phase in the lifecycle of the JSP page and it occurs when the Server is restarted or shutdown. In this phase the container calls the method jspDestroy() before removing the Servlet's object from memory.

JSP Elements
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1. The main purpose of JSP is to make our page dynamic.

2. To make a page dynamic we should be able to add **Java code inside our JSP page** and this is done with the help of tags also called as JSP tags.

3. Following are 4 popular types of JSP tags which we can use in a JSP page:

 a) Scriptlet tag
 b) Declarative tag
 c) Expression tag
 d) Directive tag

a) Scriptlet tag
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1. **Scriptlets** are JSP tags which allow us to insert **pure Java code** in the body of our JSP page.

2. Whatever Java code we write in a scriplet gets pasted in the body of **_jspService()** method by our container. So, we must remember that any statement which **Java allows** in method body is **valid** in a scriptlet and any statement which **Java prohibits** in a method body is **invalid** for a scriptlet.

3. Syntax
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<%
   //Pure Java code
%>

Displaying Current Date And Time Using scriptlet
===

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>display Date And Time</title>
    <style>
      h3 {
        color: darkblue;
        font-family: Verdana, Geneva, Tahoma, sans-serif;
      }
    </style>
  </head>
  <body>
    <%
       java.util.Date today=new java.util.Date();
       out.println("<h3>Current date and time:"+today+"</h3>");

    %>
  </body>
</html>
```

This is a pre-defined object provided to us by container and belongs to the class JspWriter. The main purpose of out is to help the programmer display output on browser window for Jsp page

WAJSP page which displays your name in all six headings