

javax.servlet.http.Cookie
=> Cookie is a Text information that stores on client side and this
information can access anywhere in web Application.
=> There are 2 types of Cookie
1. In Memory Cookie
2. Persistent Cookie
1. In Memory Cookie
=> such type Cookie should store in Browser memory and it is automatically deleted when browser is Closed.
2.Persistent Cookie
=> Such type Cookie should store for specific Time, after this duration, it is automatically deleted after this duration.
Note: Cookie is applicable only for HttpServlet.
Creating Object of Cookie
Cookie ck1=new Cookie("user","analyze"); Cookie ck2= new Cookie("pswd","Lucknow");

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How to make Persistent Cookie
ck2.setMaxAge(30*24*60*60);//30 days here Time is given in Second
Add Cookie on Client Side
response.addCookie(ck1);
response.addCookie(ck2);
How to get Data from Cookie
Cookie ck[]=request.getCookies();
for(int i=0;i <ck.length;i++)< td=""></ck.length;i++)<>
{ out.print.println("Cookie Name"+ck[i].getName());
out.print.println("Cookie Value"+ck[i].getValue());
}
Updating Value of Cookie



ck1=new Cookie("user","Analyze Infotech");
Note
Using Program we can not delete Cookie
JSP(Java Server Pages)

=> JSP is a Server Side Scripting Language.
=> Every Scripting Language is Based of Tags, So JSP is also Based on Tags.
=> A JSP File can have HTML, CSS , Java Script and Java Code
=> A JSP file has .jsp extn.
=> Every JSP Page is converted in Servlet by JSP Container.
jspFile.jsp => ServletFile.java => ByteCode.class => Conversion into Machine Code and Execution
Advantages of JSP compare to Servlet
=>A JSP file does not need to structure of Class and Object, it works like scripting Language.
=>A JSP file can have HTML Code normally, it does not need of out.println()
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=> Execution of JSP Page is faster than Servlet.
=> A JSP File also support implicit Object for use full classes and Interface.
Implicit Object for JSP File
Page page
PrintWriter out
ServletConfig config
HttpServletRequest request
HttpServletResponse response
HttpSession session
Cookie cookie
JSP Tags
=> There are 5 types of JSP Tags
1. Directive Tag
=> Directive Tag is used to import specific Class, Package or it is also used to extends Class.
<%@page import="java.util.*"%>
<%@page import="DB.*"%>
<%@include file="header.jsp"%> Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821 E-mail. admin@analyzeinfotech.in, Website: www.analyzeinfotech.in



<%@include file="footer.html"%>

2. Declarative Tag => Declarative Tag is used to declare Variable and function, which can access anywhere in web Page. <%! String cname="Analyze"; String city="Lucknow"; int sum=0; void sum(int n) for(int i=1;i<=n;i++) sum=sum+i; } } %> 3. Scriptlet Tag => Scriptlet Tag is most use full Tag in JSP and it can have any valid Statement of Java. <% int a=10; int b=20; Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821 E-mail. admin@analyzeinfotech.in, Website: www.analyzeinfotech.in pg. 5



int c=a+b;
System.out.println("Addition="+c);
%>
4. Expression Tag
=> Expression Tag is used to execute single java Statement and it also prints its output.
<%=cname%>
or

<%
out.println(cname);
%>
5. Implicit Object
=> JSP supports some use full implicit Objects
Page page
PrintWriter out
ServletConfig config
HttpServletRequest request
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HttpServletResponse response

HttpSession session

Cookie cookie

Note: A JSP page always exists in Web Pages

Note: <%-- Comment --%> is used for JSP Comment

```
< --- JSP Tag Demonstration --%>
< --- Directive Tag --%>
<@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.util.Date" language="java" %>
< --- Declarative tag --%>
<%!
String company="Analyze infotech";
//Function
int pinCode()
return 226021;
}
%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>JSP Tag Implementation</h1>
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```



```
<form action="">
  Enter Employee Name:<input type="text" name="user">
  <br><input type="submit" value="submit">
    </form>
    < --- scriptlet Tag --%>
    <%
if(request.getParameter("user")!=null)
{
  String uname=request.getParameter("user");
out.println("<h2>Welcome "+uname+" in "+company+"</h2>");
}
%>
< --- Expression Tag --%>
    <br>Company Name:<%=company%>
   <br>Pin Code : <%=pinCode()%>
  <br><br>>
  </body>
</html>
< --- JSP Tag Demonstration --%>
< --- Directive Tag --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.util.Date" language="java" %>
  Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821
   E-mail. admin@analyzeinfotech.in, Website: www.analyzeinfotech.in
```



```
< --- Declarative tag --%>
<%!
String company="Analyze infotech";
//Function
int pinCode()
return 226021;
}
%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>JSP Tag Implementation</h1>
    <form action="">
  Enter Employee Name:<input type="text" name="user">
  <br><input type="submit" value="submit">
    </form>
    < --- scriptlet Tag --%>
    <%
if(request.getParameter("user")!=null)
{
  String uname=request.getParameter("user");
out.println("<h2>Welcome "+uname+" in "+company+"</h2>");
  Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821
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```



```
}
%>
< --- Expression Tag --%>
    <br>Company Name:<%=company%>
   <br>Pin Code : <%=pinCode()%>
  <br><br>>
  </body>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <%!
    String college="IET Lucknow";
    int total;
    float per;
    int findTotal(int m1,int m2,int m3)
    {
    total=m1+m2+m3;
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```



```
return total;
    }
    float findPer()
     per=total/3.0f;
     return per;
    }
   String findDivision()
    {
     if(per>=60)
     return "First Division";
     else if(per>=50)
     return "Second Division";
     else if(per>=40)
            return "Third Division";
else
            return "Fail";
       }
    %>
    <h1>Student Marksheet</h1>
<form action="">
    <br>StuName:<input type="text" name="sname">
    <br>Subject1:<input type="number" name="sub1">
    <br>Subject2:<input type="number" name="sub2">
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```



```
<br>Subject3:<input type="number" name="sub3">
    <br><input type="submit" value="Submit">
</form>
<%
if (request.getParameter("sname")!=null)
{
String sname=request.getParameter("sname");
int sub1=Integer.parseInt(request.getParameter("sub1"));
int sub2=Integer.parseInt(request.getParameter("sub2"));
int sub3=Integer.parseInt(request.getParameter("sub3"));
out.println("<br>>College Name "+college);
out.println("<br>>Student Name "+sname);
out.println("<br>Subject1 Marks "+sub1);
out.println("<br>Subject2 Marks "+sub2);
out.println("<br>Subject3 Marks "+sub3);
out.println("<br>Total Marks "+findTotal(sub1, sub2, sub3));
out.println("<br>Percentage "+findPer());
out.println("<br>"+findDivision());
}
%>
  </body>
</html>
```

