SESSION 16 PROGRAMS(SERVLETS)

Program 1

employeeForm.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
  pageEncoding = "ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="EmployeeServlet">
  <label for="name">Enter name</label><br>
  <input type="text" id="name" name="name"> <br>
  <label for="address">Enter Address</label><br>
  <input type="text" id="address" name="address"><br>
  <input type="submit" value="submit">
</form>
</body>
</html>
```

Program 2 (EmployeeServlet)

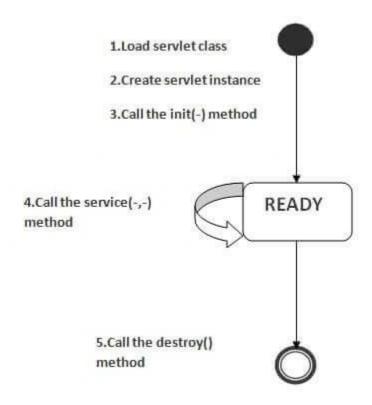
Core Java Training

```
public class EmployeeServlet extends HttpServlet {
      private static final long serialVersionUID = 1L;
  /**
   * @see HttpServlet#HttpServlet()
  public EmployeeServlet() {
    super();
    // TODO Auto-generated constructor stub
  }
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
       */
      protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
             // TODO Auto-generated method stub
             PrintWriter out = response.getWriter();
             HttpSession <u>session</u> = request.getSession();
             RequestDispatcher rd =
request.getRequestDispatcher("employeeView.jsp");
             String name = request.getParameter("name");
             String address = request.getParameter("address");
             out.println("Welcome "+name);
             out.println("<br>");
             out.println("Courier has been dispatched to your address at
"+address);
             /*
             session.setAttribute("name", name);
             session.setAttribute("address", address);
             response.sendRedirect("employeeView.jsp");
             */
             rd.include(request, response);
      }
       * @see HttpServlet#doPost(HttpServletReguest request, HttpServletResponse
response)
```

Core Java Training

Program 3 employeeView.jsp

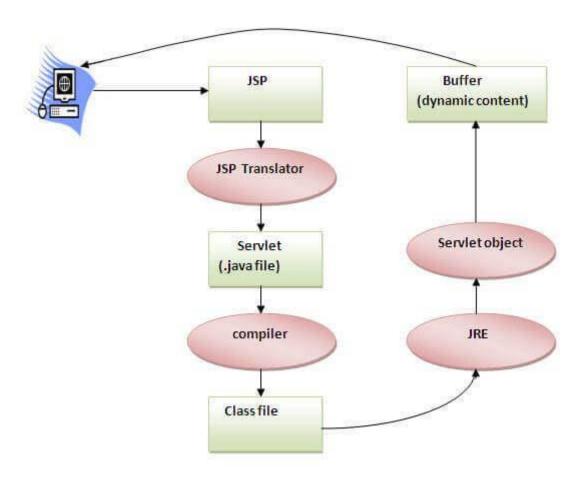
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here </title>
</head>
<body>
      <%
                   //String name = request.getParameter("name");
                    //String address = request.getParameter("address");
                    String name =(String) session.getAttribute("name");
                    String address = (String) session.getAttribute("address");
                    out.println("Welcome "+name);
                    out.println("<br>");
                    out.println("Courier has been dispatched to your address at
"+address);
                    //session.invalidate();
      %>
</body>
</html>
```



Life Cycle of a Servlet (Servlet Life Cycle)

The web container maintains the life cycle of a servlet instance. Let's see the life cycle of the servlet:

- 1. Servlet class is loaded.
- 2. Servlet instance is created.
- 3. init method is invoked.
- 4. service method is invoked.
- 5. destroy method is invoked.



The Lifecycle of a JSP Page

The JSP pages follow these phases:

- Translation of JSP Page
- Compilation of JSP Page
- Classloading (the classloader loads class file)
- Instantiation (Object of the Generated Servlet is created).
- Initialization (the container invokes jsplnit() method).
- Request processing (the container invokes _jspService() method).
- Destroy (the container invokes jspDestroy() method).

Core Java Training

SESSION 16 ASSIGNMENTS

- 1. Write a Program to create Student jsp.Create Student info fields like Roll No , Name , Std ,Div ,Age , Gender , Subjects . Call StudentDisplay Servlet.

 Display in this Servlet all the details entered in Student jsp .
- 2. Enhance the above program . From StudentDisplay Servlet, redirect response to StudentOutput jsp. Before redirecting , put II students data in Session object . Now Display students data in StudentOutput jsp
- 3. In asdsignment 2, Use Request Dispatcher include & forward method in place of response.sendredirect method.