Program 1 :

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%

out.println("Welcome to JSP Page");

**int** a = 10;

**int** b = 20;

**int** sum = 30;

out.println("Sum : " + sum);

%>

</body>

</html>

O/P:

Welcome to JSP Page

Sum : 30

Program 2 :

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

**int** a = 10;

**int** b = 20;

**int** sum;

%>

<%

out.println("Welcome to JSP Page");

out.println("<br/>");

sum = 30;

out.println("Sum : " + sum);

%>

</body>

</html>

O/P:

Welcome to JSP Page   
Sum : 30

Program 3 :

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<!-- Declarative Tag -->

<%!

**int** a = 10;

**int** b = 20;

**int** sum;

String name = "Abhi";

%>

<!-- Scriplet Tag -->

<%

out.println("Welcome to JSP Page");

out.println("<br/>");

sum = 30;

out.println("Sum : " + sum);

%>

<!-- Expression Tage -->

<br/>

UserName is <b> <%= name %> </b>

</body>

</html>

O/P:

Welcome to JSP Page   
Sum : 30   
UserName is **Abhi**

**Program 4 :**

**Home.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

String name,password;

%>

<%

name = request.getParameter("user");

password = request.getParameter("pass");

**if** (name.equalsIgnoreCase("abhi") && password.equalsIgnoreCase("abhi")) {

out.println("Successfully Logged In");

} **else** {

out.println("Invalid Credentials ... Try Again");

}

%>

</body>

</html>

**Login.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"Home.jsp"* align=*"center"*>

<h1>Login</h1>

<br/> <br/>

Enter Username :

<input type=*"text"* name=*"user"* placeholder=*"Enter UserName"*/>

<br/> <br/>

Enter Password :

<input type=*"password"* name=*"pass"* placeholder=*"Enter Password"*/>

<br/> <br/>

<input type=*"submit"* value = *"Login"*/>

</form>

</body>

</html>

O/P:

**Login**

Enter Username :    
  
Enter Password :    
  


Successfully Logged In

Program 5 :

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

String name,password;

%>

<%

name = request.getParameter("user");

password = request.getParameter("pass");

**if** (name.equalsIgnoreCase("abhi") && password.equalsIgnoreCase("abhi")) {

out.println("Successfully Logged In");

%>

<jsp:forward page=*"Home.jsp"*></jsp:forward>

<% } **else** {

%>

<jsp:include page=*"Login.jsp"*></jsp:include>

<%

out.println("<h3 align = "+'"'+"center"+'"'+">Invalid Credentials ... Try Again</h3>");

}

%>

</body>

</html>

Program 5 :

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Demo

\*/

**public** **class** Demo **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** Demo() {

**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

//response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

//doGet(request, response);

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

String user = request.getParameter("user");

pw.println("UserName in Demo Servlet "+user);

request.setAttribute("username", user);

//RequestDispatcher rd1 = request.getRequestDispatcher("Home.jsp");

//rd1.forward(request, response);

response.sendRedirect("Home.jsp");

}

}

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to home Page</h1>

<%

out.println("Name in Home.jsp : "+request.getAttribute("username"));

%>

</body>

</html>

Login.Html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"Demo"* method=*"post"*>

UserName : <input type=*"text"* name=*"user"*/><br/>

<input type=*"submit"* value=*"Submit"*/>

</form>

</body>

</html>

Program 6 :

package com;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Date;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class SessionDemoTry

\*/

public class SessionDemoTry extends HttpServlet {

private static final long serialVersionUID = 1L;

int count = 0;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public SessionDemoTry() {

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

//response.getWriter().append("Served at: ").append(request.getContextPath());

PrintWriter pw = response.getWriter();

pw.println("<font size=6>");

HttpSession hs = request.getSession();

pw.println("Count Value is : "+count);

pw.println("<br> Session Id is : "+hs.getId());

if(hs.isNew()) {

pw.println("<br> New Client");

} else {

pw.println("<br> Old Client");

}

pw.println("<br> Sesion Creation Time "+new Date(hs.getCreationTime()));

pw.println("<br> Sesion Last Access Time "+new Date(hs.getLastAccessedTime()));

pw.println("<br> Default Time "+hs.getMaxInactiveInterval());

hs.setMaxInactiveInterval(600);

pw.println("<br> Change time "+hs.getMaxInactiveInterval());

count++;

if(count%5==0) {

hs.invalidate();

}

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}

O/P:

Count Value is : 22   
Session Id is : 70A675BD0CE6F6D26CA3B9C15F818CA0   
Old Client   
Sesion Creation Time Tue Mar 13 17:00:50 IST 2018   
Sesion Last Access Time Tue Mar 13 17:00:51 IST 2018   
Default Time 600   
Change time 600

Program 7 :

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Demo

\*/

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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

//response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

//doGet(request, response);

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

String user = request.getParameter("user");

pw.println("UserName in Demo Servlet "+user);

HttpSession hs = request.getSession();

hs.setAttribute("username", user);

//RequestDispatcher rd1 = request.getRequestDispatcher("Home.jsp");

//rd1.forward(request, response);

response.sendRedirect("Home.jsp");

}

}

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to home Page</h1>

<%

out.println("Name in Home.jsp : "+session.getAttribute("username"));

%>

</body>

</html>

O/P :

# Welcome to home Page

Name in Home.jsp : abhi

Program 8 :

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Demo

\*/

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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

//response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

//doGet(request, response);

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

String user = request.getParameter("user");

pw.println("UserName in Demo Servlet "+user);

HttpSession hs = request.getSession();

hs.setAttribute("username", user);

hs.invalidate();

//RequestDispatcher rd1 = request.getRequestDispatcher("Home.jsp");

//rd1.forward(request, response);

response.sendRedirect("Home.jsp");

}

}

o/P:

# Welcome to home Page

Name in Home.jsp : null

Program 9 :

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Demo

\*/

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

ServletContext sc;

@Override

public void init(ServletConfig config) throws ServletException {

// TODO Auto-generated method stub

super.init(config);

sc = config.getServletContext();

}

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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

//response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

//doGet(request, response);

response.setContentType("text/html");

PrintWriter pw = response.getWriter();

String user = request.getParameter("user");

pw.println("UserName in Demo Servlet "+user);

HttpSession hs = request.getSession();

sc.setAttribute("username", user);

hs.invalidate();

//RequestDispatcher rd1 = request.getRequestDispatcher("Home.jsp");

//rd1.forward(request, response);

response.sendRedirect("Home.jsp");

}

}

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to home Page</h1>

<%

out.println("Name in Home.jsp : "+application.getAttribute("username"));

%>

</body>

</html>

O/P

# Welcome to home Page

Name in Home.jsp : sdfsdf