

GUJARAT TECHNOLOGICAL UNIVERSITY Mahatma Gandhi Institute Of Technical Education &

Research Center, Navsari



COMPUTER ENGINEERING DEPARTMENT

B.E.3RD YEAR 6TH SEM

Subject Name: Advanced Java Programming Subject Code: 3160707

INDEX

Sr. No.	AIM	DATE	SIGN
110.	Write a JAVA program that implements a simple Client / Server application. The		
1	client sends data to a server. Server receives the data, users it to produce a result		
	and then sends the result back to client. The client displays the result on the		
	console. For example the data send from the client is two numbers and the		
	result produce by the server is addition of those two numbers.		
2	Write a JAVA program that implements a simple Client / Server application.		
	The data send from the client is a number and the result produce by the server is even number or odd number		
3	Write a JAVA program that implements TCP/UDP chat application.		
4	Write a program that takes host name and output its IP Address.		
5	Write a Servlet that takes first name and last name from user & generate login		
	id such that first three characters are from first name & last three characters are		
	from the last name.		
6	Implements a Servlet which counts the number of Hits. (i.e. Hit-counter)		
7	Write a HTML page which inputs the below mentioned fields and invoke the		
	java Servlet program which enters the fields in access Database. 1. EMP_ID, 2.		
	EMP_NAME, 3. DEPT, 4.CITY.		
8	Write a HTML page which inputs the below mentioned fields and invoke the		
	java Servlet program which enters the fields in access Database using prepared		
	statement. 1. ENROLMENT, 2.STUDENT_NAME, 3. BRANCH, 4. YEAR.		
9	Write a HTML page that will ask user to login. When user submits this HTML pages, invoke a JSP on Server, which will make query in database to check		
	whether username or password are correct or not. If the user is valid, create one		
	Session for this user & provide one link in JSP1, that if click will execute JSP2		
	on server. In JSP2 print the content of session that was created in JSP1.		
10	To Study and implement JSF. (JAVA Server Faces)		
11	Create a web service using Netbeans IDE.		
12	To Study and implement Hibernate.		
13	Open Ended Problem:		
	For Example: Develop an application of Online Pizza Shop through which user		
	can make search of place by different area like shop name, area name, rating		
	wise, etc. Make assumptions in application design. (Develop using JSP /		
	Servlet)		

AIM: Write a java program that implements a simple client-server application. The client send a data to server, Server receives data and produce a result back to client. The client display result on the console. For Example, the data send from the client is two numbers and the result produce by server is addition of those two number.

PROGRAM:

Client.java

```
import java.io.*;
import java.net.*;
public class Client
       public static void main(String r[]) throws Exception
              int a,b,sum;
               Socket s = new Socket("localhost",80);
              DataInputStream i = new DataInputStream(s.getInputStream());
              DataOutputStream(o = new DataOutputStream(s.getOutputStream());
               a=Integer.parseInt(r[0]);
               b=Integer.parseInt(r[1]);
              o.write(a);
              o.write(b);
              sum=i.read();
              System.out.println("Addition" +a+"+"+b+" = "+sum);
              i.close();
              o.close();
               s.close();
```

```
Server.java
import java.io.*;
import java.net.*;
public class Server
      public static void main(String r[]) throws Exception
             ServerSocket s1 = new ServerSocket(80);
             Socket s = s1.accept();
             DataInputStream i = new DataInputStream(s.getInputStream());
             DataOutputStream(s.getOutputStream());\\
             int a= i.read();
             int b= i.read();
             int sum=a+b;
             o.write(sum);
             System.out.println("Endof Program");
             i.close();
             o.close();
             s1.close();
       }
 Command Prompt
                                                                              C:\Users\DELL>cd C:\Users\DELL\Documents\AJP
C:\Users\DELL\Documents\AJP>javac Client.java
C:\Users\DELL\Documents\AJP>java Client 5 7
Addition 5+7 = 12
C:\Users\DELL\Documents\AJP>
Command Prompt
                                                                             X
Microsoft Windows [Version 10.0.22000.613]
(c) Microsoft Corporation. All rights reserved.
C:\Users\DELL>cd C:\Users\DELL\Documents\AJP
C:\Users\DELL\Documents\AJP>javac Server.java
C:\Users\DELL\Documents\AJP>java Server
End of Program
C:\Users\DELL\Documents\AJP>
```

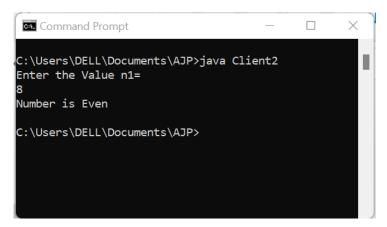
AIM: Write a java program that implements a simple client-server application.

The data send from a client is a number and the result produce by the server is whether the number is even or odd.

PROGRAM:

```
Client.java
```

```
import java.io.*;
import java.net.*;
public class Client
       public static void main(String r[]) throws Exception
              int a,b,sum;
              Socket s = new Socket("localhost",80);
               BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
              DataInputStream i = new DataInputStream(s.getInputStream());
              DataOutputStream o = new DataOutputStream(s.getOutputStream());
              int n1;
              System.out.println("Enter the Value n1=");
              n1=Integer.parseInt(br.readLine());
              o.write(n1);
              System.out.println(i.readUTF());
              i.close();
              o.close();
               s.close();
}
Server.java
import java.io.*;
import java.net.*;
public class Server
       public static void main(String r[]) throws Exception
              ServerSocket s1 = new ServerSocket(80);
              Socket s = s1.accept();
```



```
C:\Users\DELL\Documents\AJP>java Server2
Value of n1=7

C:\Users\DELL\Documents\AJP>java Server2
Value of n1=8

C:\Users\DELL\Documents\AJP>_
```

AIM: Write a java program that implements a TCP/UDP chat application.

PROGRAM:

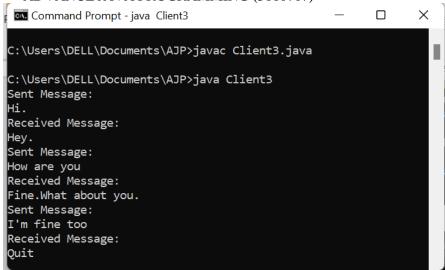
Client.java

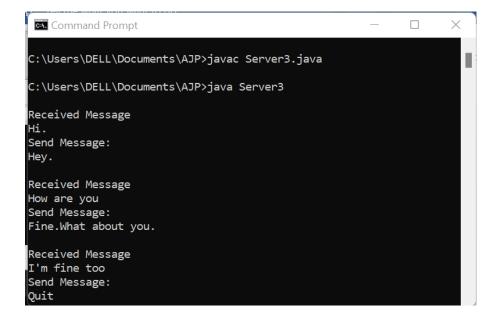
```
import java.io.*;
import java.net.*;
public class Client
       public static void main(String r[]) throws Exception
              Socket s = new Socket("localhost",80);
              BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
              DataInputStream i = new DataInputStream(s.getInputStream());
              DataOutputStream(o = new DataOutputStream(s.getOutputStream());
              String p;
              do
                      System.out.println("Sent Message:");
                      p=br.readLine();
                      o.writeUTF(p);
                      if(p.equalsIgnoreCase("Quit"))
                             break;
                      System.out.println("Received Message:");
                      System.out.println(i.readUTF());
               }while(true);
              i.close();
              o.close();
              s.close();
       }
```

Server.java

```
import java.io.*;
import java.net.*;
public class Server
       public static void main(String r[]) throws Exception
              ServerSocket s1 = new ServerSocket(80);
              Socket s = s1.accept();
              BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
              DataInputStream i = new DataInputStream(s.getInputStream());
              DataOutputStream(o = new DataOutputStream(s.getOutputStream());
              String q;
              do
                      System.out.println("\nReceived Message");
                      System.out.println(i.readUTF());
                      System.out.println("Send Message:");
                      q=br.readLine();
                      o.writeUTF(q);
                      if(q.equalsIgnoreCase("Quit"))
                      {
                             break;
               }while(true);
              i.close();
              o.close();
              s1.close();
       }
}
```

ADVANCE JAVA PROGRAMMING (3160707)

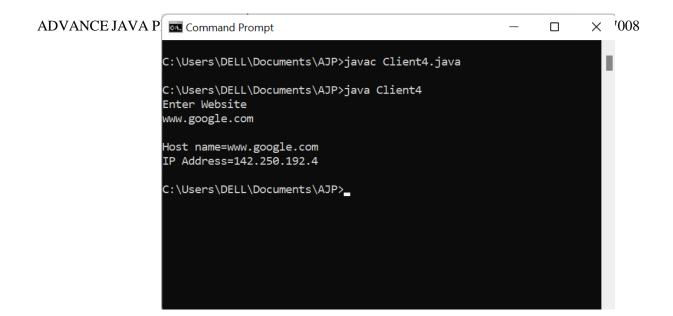




AIM: Write a java program that takes host name and outputs it's IP address.

PROGRAM:

```
import java.io.*;
importjava.net.*;
class Client
       public static void main(String r[])
               try
                      BufferedReader br = new BufferedReader(new InputStreamReader
                      (System.in));
                      System.out.println("Enter Website");
                      String p = br.readLine();
                      InetAddress ip = InetAddress.getByName(p);
                      System.out.println("\nHost name=" + ip.getHostName());
                      System.out.println("IP Address=" + ip.getHostAddress());
               }
              catch(Exception e)
                      System.out.println("Error="+e);
       }
```



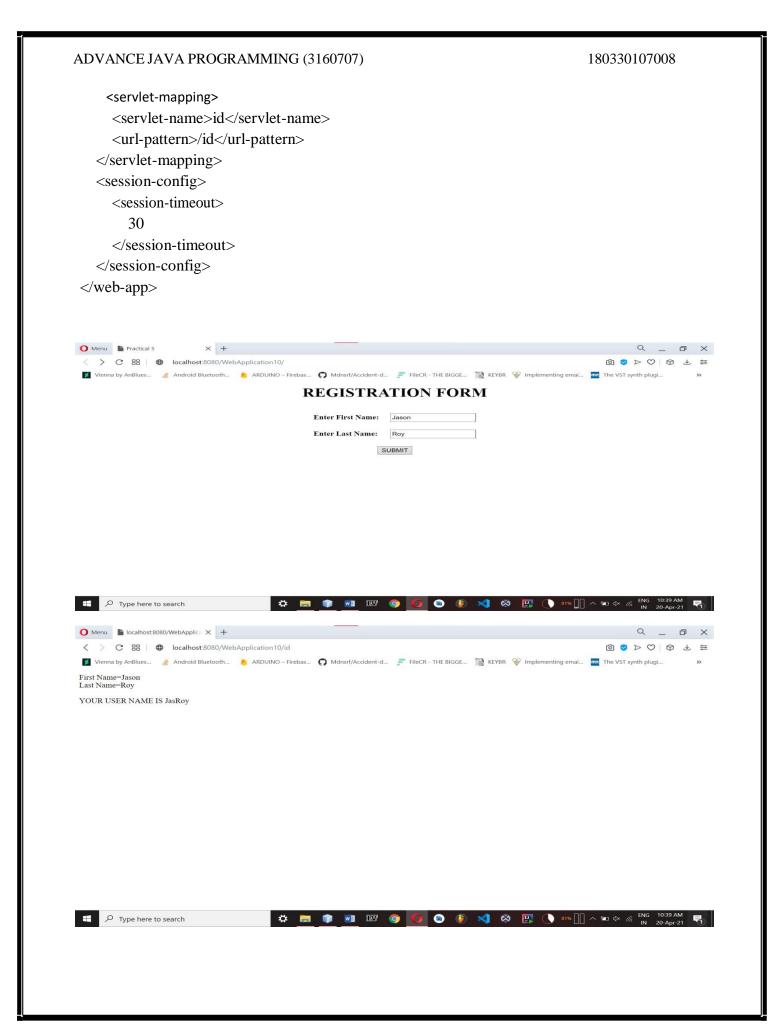
AIM: Write a servlet that takes first name and last name from user and generate login Id such that 3 characters are from first name and 3 characters are from last name.

PROGRAM:

index.html

```
<html>
 <head>
   <title>Practical 5</title>
   <meta charset="UTF-8">
   <metaname="viewport" content="width=device-width">
 </head>
 <body>
 <center><h1>REGISTRATION FORM</h1>
   <form action="id" method="post">
    Enter First Name:
       <input type="text" name="fname"/>
      Enter Last Name:
       <input type="text" name="lname"/>
      <input type="submit" value="SUBMIT"/>
      </form>
 </center>
 </body>
</html>
```

```
id.html
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class id extends HttpServlet
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
  throws ServletException, IOException
    response.setContentType("text/html");
     PrintWriter o = response.getWriter();
     String p = request.getParameter("fname");
     String q = request.getParameter("lname");
    o.print("First Name="+p);
    o.print("<br/>");
    o.print("LastName="+q);
    o.print("<br/>");
    String r = p.substring(0,3);
    int s = q.length();
    Stringt=q.substring(s-3,s);
    String a= r.concat(t);
    o.print("<br/>");
    o.print("YOUR USER NAME IS "+a);
}
web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-appversion="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
                                                         http://xmlns.jcp.org/xml/ns/javaee/web-
app 3 1.xsd">
  <servlet>
     <servlet-name>id</servlet-name>
     <servlet-class>id</servlet-class>
  </servlet>
```



AIM: Implement a Servlet which counts the no. of Hits (i.e. Hit Counter)

PROGRAM:

```
index.html
```

HitCounter.iava

```
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
importjavax.servlet.http.HttpSession;
public class HitCounter extends HttpServlet ;
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException
    response.setContentType("text/html");
    PrintWriter pw= response.getWriter();
    HttpSessionhs=request.getSession();
     Integer counter = new Integer (0);
    Counter=(Integer)hs.getAttribute("counter");
    if(counter==null)
       Counter = new Integer (1);
```

AIM: Write HTML page which inputs the below mentioned fields and invoke the java servlet program which enters the fields in Access Database. 1.EMP_ID, 2.EMP_NAME, 3. DEPT, 4. CITY

PROGRAM:

index.html

```
<html>
 <head>
   <title>Practical 7</title>
   <meta charset="UTF-8">
   <metaname="viewport" content="width=device-width">
 </head>
 <body>
 <center><font face="Forte" size="10" color="purple">EMPLOYEE INFORMATION </font>
 </center>
 <form action="login" method="post">
   Enter Employee ID:
      <input type="number" name="id"/>
    Enter Employee Name:
      <input type="text" name="name"/>
    Enter Department:
      <input type="text" name="dept"/>
    Enter City:
      <input type="text" name="city"/>
    <input type="submit" value="SUBMIT"/>
    </form>
 </body>
</html>
```

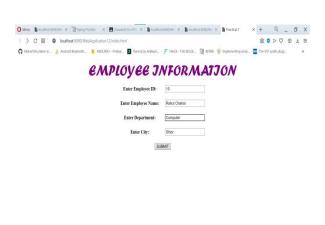
login.java

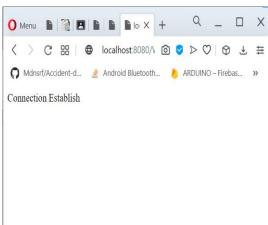
```
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class login extends HttpServlet
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
  throws ServletException, IOException
     response.setContentType("text/html");
    PrintWriter o =response.getWriter();
    try
       Stringp=request.getParameter("id");
       String q=request.getParameter("name");
       Stringr=request.getParameter("dept");
       String s=request.getParameter("city");
       Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
       Connectioncn=DriverManager.getConnection("jdbc:odbc:db11");
       o.println("Connection Establish");
       Statement st = cn.createStatement();
       st.executeUpdate("Insert into em values("+p+"',"+q+"',"+r+"',"+s+"')");
       cn.close();
    catch(Exception e)
       o.println("Error=" + e);
```

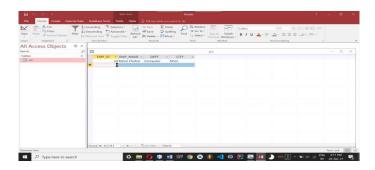
http://xmlns.jcp.org/xml/ns/javaee/web-

```
web.xml
```

```
<?xml version="1.0" encoding="UTF-8"?>
<web-appversion="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
app_3_1.xsd">
  <servlet>
    <servlet-name>stinfo</servlet-name>
    <servlet-class>stinfo</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>stinfo</servlet-name>
    <url-pattern>/stinfo</url-pattern>
  </servlet-mapping>
  <session-config>
    <session-timeout>
       30
    </session-timeout>
  </session-config>
</web-app>
```







AIM: Write HTML page which inputs the below mentioned fields and invoke the java servlet program which enters the fields in Access Database using Prepared Statement. 1.ENROLLMENT, 2. STUDENT_NAME, 3. BRANCH, 4. YEAR

PROGRAM:

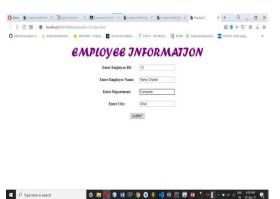
index.html

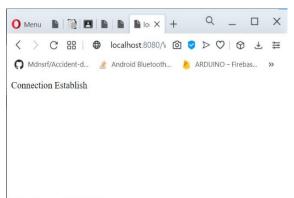
```
<html>
 <head>
   <title>Practical 5</title>
   <meta charset="UTF-8">
   <metaname="viewport" content="width=device-width">
 </head>
 <body>
 <center><font face="Forte" size="10" color="purple">STUDENT
    INFORMATION</font></center>
 <form action="stinfo" method="post">
   Enter Enrollment Number:
      <input type="number" name="en"/>
    Enter Name:
      <input type="text" name="name"/>
    Enter Branch:
      <input type="text" name="branch"/>
    Enter Year:
      <input type="number" name="name"/>
    <input type="submit" value="SUBMIT"/>
   </form>
 </body>
</html>
```

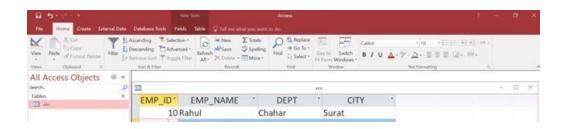
```
stinfo.java
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class stinfo extends HttpServlet
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException
     response.setContentType("text/html");
     PrintWriter o = response.getWriter();
     try
       String p = request.getParameter("en");
       String q = request.getParameter("name");
       String r = request.getParameter("branch");
       String s = request.getParameter("year");
       Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
       Connectioncn=DriverManager.getConnection("jdbc:odbc:ddd");
       o.print("Connection Establish");
       PreparedStatement st = cn.prepareStatement("insert into student values(?,?,?,?)");
       st.setString(1, p);
       st.setString(2, q);
       st.setString(3, r);
       st.setString(4, s);
       st.executeUpdate();
       cn.close();
     catch(Exception e)
       o.print("Error="+e);
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-appversion="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
                                                       http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd">
  <servlet>
     <servlet-name>stinfo</servlet-name>
     <servlet-class>stinfo</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>stinfo</servlet-name>
     <url-pattern>/stinfo</url-pattern>
  </servlet-mapping>
  <session-config>
    <session-timeout>
       30
     </session-timeout>
  </session-config>
</web-app>
```







Aim: Write a HTML page that will ask user to login. When user submits this HTML pages, invoke a JSP on Server, which will make query in database to check whether username or password are correct or not. If the user is valid, create one Session for this user & provide one link in JSP1, that if click will execute JSP2 on server. In JSP2 print the content of session that was created in JSP1.

PROGRAM:

```
index.html
<html>
       <head>
             <title>Practical9</title>
             <meta charset="UTF-8">
             <metaname="viewport" content="width=device-width">
       </head>
       <body>
       <form action="login.jsp" method="get">
             User Name:<input type="text" name="user"/>
             Password:<inputtype="password" name="pw"/>
             <input type="submit" value="submit"/>
       </form>
       </body>
</html>
login.isp
<% @page import ="java.io.PrintWriter"%>
<%@pagelanguage="java" import="java.sql.*;"%>
<%@pagecontentType="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>
```

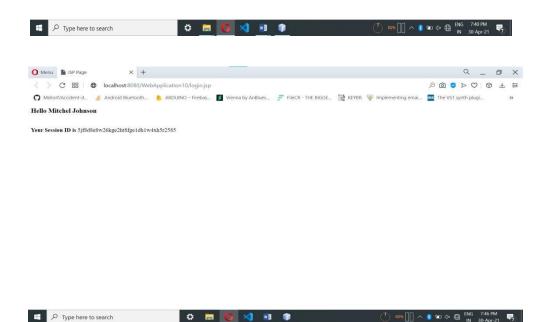
```
<%
              PrintWriter pw=response.getWriter();
              String uname = request.getParameter("user");
              String passw = request.getParameter("pw");
try
       Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
       Connectioncon=DriverManager.getConnection("jdbc:odbc:DATABASE1","","");
       Statement st = con.createStatement();
       String QRY="SELECT * FROM tb1 WHERE username="" + uname + "' AND
       password="" + passw + """;
       ResultSet rs = st.executeQuery(QRY);
       while (rs.next()) {
       HttpSession hs = request.getSession(true);
       hs.setAttribute("username", uname);
}
catch(Exception e)
{
       pw.println(e);
}
%>
<jsp:forward page="jsp1.jsp"/>
</body>
</html>
isp1.jsp
<% @page import = "java.io.PrintWriter"%>
<% @pagecontentType="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>
       <%
              HttpSession hs = request.getSession();
              PrintWriter pw=response.getWriter();
              pw.println("<h3>Welcome"+hs.getAttribute("uname")+"<h3>");
```

```
pw.println("<h4>View your Session ID <a href=\"jsp2.jsp\">Here</a></h1>");
        %>
        </body>
</html>
isp2.isp
<% @page import ="java.io.PrintWriter"%>
<%@pagecontentType="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>
        <%
               HttpSession hs = request.getSession();
               PrintWriter pw=response.getWriter();
               pw.println("<h3>Hello " + hs.getAttribute("uname") + "</h3>");
               pw.println("<br/>br/><b>Your Session ID is </b>" + hs.getId() + "<br/>br>");
        %>
        </body>
</html>
          🔾 Mdnsrf/Accident-d... 🏄 Android Bluetooth... 🥻 ARDUINO – Firebas... 🗾 Vienna by AnBlues... 🍃 FileCR – THE BIGGE... 🗿 KEYBR 💝 Implementing emai... 🚾 The VST synth plugi...
          User Name Mitchel Johnson Password: ---- submit
```

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Type here to search





Aim: To Study and implement JSF. (JAVA Server Faces)

PROGRAM:

```
index.xhtml
```

```
<html xmlns="http://www.w3.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html">
<h:head>
<title>JSFDemo</title>
</h:head>
<h:body>
<h:form id="form">
<h:outputLabel>FirstName:</h:outputLabel>
<h:inputText id="fname" value="#{user.fname}" required="true"/><br/>
<h:outputLabel>LastName:</h:outputLabel>
<h:inputText id="lname" value="#{user.lname}" required="true"/><br/>
<h:outputLabel>LastName:</h>
<h:outputLabel>
<h:inputText id="lname" value="#{user.lname}" required="true"/><br/>
<h:commandButtonvalue="Submit" action="Response.xhtml"/>
</h:form>
</h:body>
</html></he>
```

Response.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html">
    <head>
    <title>GetData using Java Bean</title>
    <metaname="viewport" content="width=device-width"/>
    </head>
    <h:body>
    <h:body>
    <h:outputTextvalue="Hello#{user.fname} #{user.lname}"></h:outputText></h2>
    </h:body>
    </html>
```

user.java

```
import java.beans.*;
importjava.io.Serializable;
importjavax.faces.bean.ManagedBean;
import javax.faces.bean.RequestScoped;
```

```
@ManagedBean
   @RequestScoped
  public class user implements Serializable
         Stringfname;
        String lname;
          public String getFname()
                   return fname;
           public void setFname(String fname)
  this.fname = fname;
          public String getLname()
                   return lname;
           }
          public void setLname(String lname)
  this.lname = lname;
Hello Jofra Archer
 LastName : Arther

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```

```
Aim: Create a web service using Netbeans IDE.
```

PROGRAM:

webservice1:

```
Web.xml:
```

```
<?xml version="1.0" encoding="UTF-8"?>
       <web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"</pre>
              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
              xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
      http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
              version="3.1">
         <session-config>
           <session-timeout>
              30
           </session-timeout>
         </session-config>
</web-app>
MyWebService.java:
       package pack1;
       import javax.jws.WebService;
       import javax.jws.WebMethod;
       importjavax.jws.WebParam;
       @WebService(serviceName = "MyWebService")
       public class MyWebService {
         @WebMethod(operationName = "show")
         public String show(@WebParam(name = "name") String name) {
           //TODO write your implementation code here:
           return "hello"+name;
```

Webservice1-client:

Client.jsp:

```
<% @pagecontentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
  <html>
```

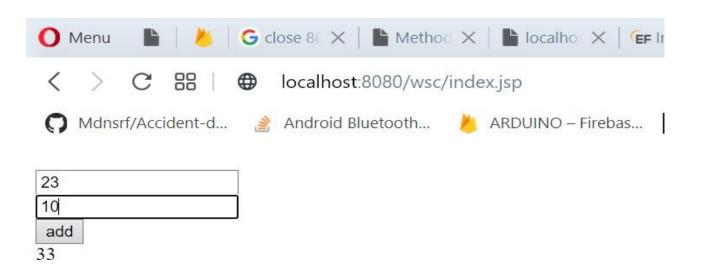
```
<head>
           <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
           <title>JSP Page</title>
         </head>
         <body>
           <h1>Hello World!</h1>
         <%-- start web service invocation --%><hr/>
         try
              pack1.MyWebService_Service = new pack1.MyWebService_Service();
              pack1.MyWebService port = service.getMyWebServicePort();
             java.lang.String name = "roseindia";
             java.lang.String result = port.show(name);
             out.println("Result = "+result);
        catch (Exception ex){}
         %>
        <hr/>
         </body>
</html>
```

MyWebService.wsdl:

```
<?xml version='1.0' encoding='UTF-8'?><!-- Published by JAX-WS RI at http://jax-</pre>
ws.dev.java.net. RI's version is Metro/2.3 (tags/2.3-7528; 2013-04-29T19:34:10+0000)
JAXWS-RI/2.2.8 JAXWS/2.2 svn-revision#unknown. --><!-- Generated by JAX-WS RI
at http://jax-ws.dev.java.net. RI's version is Metro/2.3 (tags/2.3-7528; 2013-04-
29T19:34:10+0000) JAXWS-RI/2.2.8 JAXWS/2.2 svn-revision#unknown. --
><definitions
                xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd"
                                       xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
                                                           xmlns:tns="http://pack1/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
                                                    targetNamespace="http://pack1/"
name="MyWebService">
<types>
<xsd:schema>
                                                          namespace="http://pack1/"
<xsd:import
schemaLocation="http://localhost:8080/webservice1/MyWebService?xsd=1"/>
```

```
</xsd:schema>
      </types>
      <message name="show">
      <part name="parameters" element="tns:show"/>
      </message>
      <messagename="showResponse">
      <partname="parameters" element="tns:showResponse"/>
      </message>
      <portTypename="MyWebService">
      <operation name="show">
      <input wsam:Action="http://pack1/MyWebService/showRequest" message="tns:show"/>
                                 wsam:Action="http://pack1/MyWebService/showResponse"
      <output
      message="tns:showResponse"/>
      </operation>
      </portType>
      <binding name="MyWebServicePortBinding" type="tns:MyWebService">
      <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
      <operation name="show">
      <soap:operationsoapAction=""/>
      <input>
      <soap:bodyuse="literal"/>
      </input>
      <output>
      <soap:bodyuse="literal"/>
      </output>
      </operation>
      </binding>
      <servicename="MyWebService">
      <port name="MyWebServicePort" binding="tns:MyWebServicePortBinding">
      <soap:address location="http://localhost:8080/webservice1/MyWebService"/>
      </port>
      </service>
</definitions>
```

MyWebService.xsd 1.xsd:



Aim: To study and implement Hibernate.

PROGRAM:

index.xhtml

```
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html">
    <h:head>
        <title>Facelet Title</title>
        </h:head>
        <h:body>
        Hello from Facelets
        </h:body>
</html>
```

HibernateUtil.java

```
package Aks;
 import org.hibernate.HibernateException;
 import org.hibernate.cfg.AnnotationConfiguration;
 importorg.hibernate.SessionFactory;
 public class HibernateUtil {
private static final SessionFactory sessionFactory;
     static {
     try {
        sessionFactory=newAnnotationConfiguration().configure().buildSessionFactory();
     catch (HibernateException ex)
     {System.err.println("Initial SessionFactory creation failed." + ex);
        throw new ExceptionInInitializerError(ex);
      }
   public static SessionFactory getSessionFactory() {
      return sessionFactory;
 }
```

Members.java

```
package Aks;
public class Members {
    private int id;
    private String name;
    public Members(String name) {
        this.name=name;
    }
    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}
```

Members.hbm.xml

Data.java

```
package Aks;
        import javax.faces.bean.ManagedBean;
        import javax.faces.bean.SessionScoped;
        importorg.hibernate.Session;
        @ManagedBean
        @SessionScoped
        public class Data {
           private Members m;
           private HibernateUtil helper;
          private Session session;
          public void addMember()
              m=new Members("john");
              session=helper.getSessionFactory().openSession();
              session.beginTransaction();
              session.save(m);
              session.getTransaction().commit();
              session.close();
}
Hibernate.cfg.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
 <session-factory>
                name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
  property
                 name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
  property
                name="hibernate.connection.url">jdbc:mysql://localhost/user</property>
  property
  cpropertyname="hibernate.connection.username">root/property>
  <mapping resource="Aks/Members.hbm.xml"/>
 </session-factory>
</hibernate-configuration>

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        localhost 8080/WebApplication14/
```

PRACTICAL:13

Aim: Open Ended Problem.(EXAMPLE)

```
Index.html:
```

```
<html>
<head>
  <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body><br/>dybackground="a2.jpg"></br/>
    <header>
    <div class="main">
    </div>
    <div class="title">
       <h1 id="a1" style="color: aqua">Book my Hotel</h1>
       </div>
       <div class="title1">
         <h3>Welcome to the Book My Hotel. Your dream hotel can be<center> here...</center>
</h3>
    </div>
    <div class="button">
       <a href="Reg.html" class="btn" class="active1">Registration</a>
       <a href="Log.html" class="btn" class="active1">Login</a>
    </div>
    </header>
  </body>
</html>
Reg.html:
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"/>
```

```
<title>RegistrationForm</title>
</head>
<body background="a2.jpg" style="background-size: cover ">
<center>
 <div style="position: absolute;top:10%;left:37%">
<form action="regservlet" method="post">
 <h1 style="color:aqua;font-size: 55px"><u>Book My Hotel</u></h1>
 <center><h2 style="color:crimson;font-size: 35px"><b><u>Registration Form
</u></b></h2></center>
<tb>User Name:</b><input type="text" name="a"/>
 <b>Email Id:</b><input type="text" name="b"/>
 <b>Password:</b><input type="Password" name="c"/>
 <b>Age:</b><inputtype="text" name="d"/>
</form>
 </div>
</center>
</body>
</html>
Log.html:
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"/>
<title>Log In</title>
</head>
<body background="a2.jpg" style="background-size: cover ">
<center>
```

```
<div style="position: absolute;top:10%;left:37%">
<h1 style="color:aqua;font-size: 55px"><u>Book My Hotel</u></h1>
<h2 style="color:magenta;font-size:35px "><u>Log In </u></h1>
<form action="logservlet" method="post">
<b>User Name:</b>
   <input type="text" name="j"/>
 <b>Password:</b>
   <input type="Password" name="k"/>
 <input type="submit" value="Login">
 </form>
</div>
</center>
</body>
</html>
Wel.html:
<html>
<head>
 k rel="stylesheet" type="text/css" href="style.css">
```

```
</head>
  <body>
    <header>
    <div class="main">
    \langle ul \rangle
      <a href="#"> Home</a>
      <a href="gallary.html"> Gallary</a>
      a href="#"> Book hotel</a>
      <ahref="#">Help</a>
      </div>
    <div class="title">
      <h1 id="a1" onmouseover="fun1()" onmouseout="fun2()">Book my Hotel</h1>
      </div>
      <div class="title1">
        <h3>Welcome to the Book My Hotel. Your dream hotel can be<center> here...</center>
</h3>
    </div>
    <div class="button">
      <a href="#" class="btn" class="active1">More info</a>
    </div>
    </header>
  </body>
</html>
Gallery.html:
<html>
<head>
  k rel="stylesheet" type="text/css" href="style1.css">
  </head>
<body>
```

```
<header>
    <div class="main">
      <div class="logo">
<h1 style="position:absolute;left:100px;top:20px;color:white;font-size:60;">Book My Hotel</h1>
      </div>
    <div class="ul1">
      \langle ul \rangle
     <a href="#"> Home</a>
      <a href="#">Gallery</a>
      <a href="#">Book Hotel</a>
      <ahref="#">Help</a>
    </div>
    <div class="title">
     <img src="tajmum.jpg" height="180px" width="280px"><br/>
<a href="Statueofunity.in">TAJ Hotel</a><b class="dk">,Mumbai<b><br/>
</div>
<div class="title1">
<img src="tajpalace.jpg" height="180" width="280"><br/>
<a href="Statueofunity.in">Taj Palace</a><b class="dk">,New Delhi</b><br/>
</div>
<div class="title2">
<img src="udaivilas.jpg" height="180" width="280"><br/>
<a href="Statueofunity.in">Udaivilas</a><bclass="dk">,udaipur</b><br/>
</div>
<div class="title3">
<img src="radissonguwahati.jpg" height="180" width="280"><br/>br/>
<a href="Statueofunity.in">Radisson</a><bclass="dk">,Guwahati</b><br/>
</div>
<div class="title4">
<img src="oberoi.jpg" height="180" width="280"><br/>
```

```
<a href="Statueofunity.in">Oberoi</a><bclass="dk">,New-delhi</b><br/>
</div>
<div class="title5">
<img src="hotel-Claridges-New-Delhi.jpg" height="180" width="280"><br/>br/>
<a href="Statueofunity.in">Hotel Claridges</a><b class="dk">,New-Delhi</b><br/>
</div>
     </header>
  </body>
</html>
Regservlet.java:
import java.io.IOException;
import java.io.PrintWriter;
importjava.sql.DriverManager;
importjavax.servlet.ServletException;
importjavax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
importjavax.servlet.RequestDispatcher;
public class regservlet extends HttpServlet {
  Connection cn:
Statement st:
protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
         response.setContentType("text/html");
         PrintWriterout=response.getWriter();
         Stringname=request.getParameter("a");
         Stringid=request.getParameter("b");
         Stringpass=request.getParameter("c");
         Stringage=request.getParameter("d");
    try{
```

```
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
cn=DriverManager.getConnection("JDBC:ODBC:patel1","","");
st=cn.createStatement();
String s;
s = "INSERT INTO Table1 VALUES("+name+"',"+id+"',"+pass+"',"+age+"')";
st.executeUpdate(s);
RequestDispatcher rd=request.getRequestDispatcher("Log.html");
rd.forward(request,response);
cn.close();
}
catch(Exception e)
{
System.out.println(e);
}
}
```

Logservlet.java:

```
Statement st;
protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
       response.setContentType("text/html");
       PrintWriterout=response.getWriter();
        Stringname=request.getParameter("j");
        Stringpass=request.getParameter("k");
       try{
         Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
         cn=DriverManager.getConnection("JDBC:ODBC:patel1","","");
         st=cn.createStatement();
         ResultSet rs=st.executeQuery("Select * from Table1");
         while(rs.next())
            String s1=rs.getString(1);
            String s2=rs.getString(3);
            if(name.equals(s1))
              if(pass.equals(s2))
                 RequestDispatcher rd=request.getRequestDispatcher("wel.html");
                 rd.forward(request, response);
            else
              RequestDispatcher rd=request.getRequestDispatcher("Log.html");
              rd.include(request, response);
```

```
}
        catch(Exception e)
          System.out.println(e);
   }
Style.css:
*{
  margin:0;
  padding: 0;
  font-family: Century Gothic;
header{
  background-image: linear-gradient(rgba(0,0,0,0.5), rgba(0,0,0,0.5)), url("a2.jpg");\\
  height: 100vh;
  background-size: cover;
  background-position: center;
ul{
  float: right;
  list-style-type: none;
  margin-top: 25px;
ul li{
  display: inline-block;
ul li a{
  text-decoration: none;
  color:white;
  padding: 5px 20px;
```

```
border: 1px solid white;
   transition: 0.5s ease;
 ul li a:hover{
   background-color: blueviolet;
   color: white;
ul li.active a{
    background-color: blueviolet;
   color: white;
 .logo img{
   float: left;
   width:150px;
   height: auto;
   margin-top: 25px;
 .main{
   max-width: 1200px;
   margin: auto;
 .title{
   position: absolute;
   top:45%;
   left: 50%;
   transform:translate(-50%,-50%);
 }
 .title h1{
   color:aqua;
   font-size: 55px;
.title1{
   position: absolute;
   top:55%;
   left:50%;
   transform:translate(-50%,-50%);
.title1 h3{
```

```
color:white; font-
size: 25px;
 }
 .button{
   position: absolute;
   top:65%;
   left:50%;
   transform:translate(-50%,-50%);
 .btn{
   border: 1px solid white;
   color:white;
   background:blueviolet;
   text-decoration: none;
   padding: 5px 20px;
 .btn:hover{
   background-color: orange;
   color: white;
 button btn.active1.a{
    background-color: blueviolet;
```

```
color: white;
Style1.css:
*{
  margin:0;
  padding: 0;
  font-family: Century Gothic;
}
header{
  background-image: linear-gradient(rgba(0,0,0,0.8), rgba(0,0,0,0.8)), url("a2.jpg");\\
  height: 100vh;
  background-size:cover;
  background-position: top;
}
.ul1{
  float: right;
  list-style-type: none;
  margin-top: 25px;
       margin-right:10px;
ul{
  float: right;
  list-style-type: none;
  margin-top: 25px;
ul li{
  display: inline-block;
ul li a{
  text-decoration: none;
```

```
color:white;
  padding: 5px 20px;
  border: 1px solid white;
  transition: 0.5s ease;
ul li a:hover{
  background-color: blueviolet;
  color: white;
}
ul li.active a{
   background-color: blueviolet;
  color: white;
}
.dk
       color:white;
.logo img{
  float: left;
  width:190px;
  height:130px;
  margin-top:25px;
       margin-left:-10px;
.main{
  max-width: 1200px;
  margin: auto;
.title{
  position: absolute;
  top:35%;
```

```
left:20%;
  transform:translate(-50%,-50%);
.title1{
  position: absolute;
  top:75%;
  left:20%;
  transform:translate(-50%,-50%);
}
.title2{
  position: absolute;
  top:35%;
  right:18pt;
  transform:translate(-50%,-50%);
.title3{
position: absolute;
  top:75%;
  right:18pt;
  transform:translate(-50%,-50%);
.title4{
position: absolute;
  top:75%;
  right:31%;
  transform:translate(-50%,-50%);
.title5{
position: absolute;
  top:35%;
  right:31%;
```

```
transform:translate(-50%,-50%);
```

OUTPUT:

