1 Experiment: JDBC Programs using Statement.

1.1 To write a java program using JDBC to create table and perform insert, update and delete data using Oracle.

2 Experiment: JDBC Programs using Prepared Statement.

2.1 A program to insert a record and select records.

3 Experiment : Servlet Programming

- 3.1 A servlet program to display request details.
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4 Experiment : JSP Programming

- 4.1 JSP program to display hello world.
- 4.2JSP program to demonstrate the Cookie.

5. Write a program in Java to implement a Client/Server application using RMI.

JDBC Program Using Statement

Aim:To write a java program using JDBC to create table and perform insert, update and delete data using Oracle.

Algorithm:

```
Step1:Start the program.
```

Step 2:Include packages java.io and java.sql.

Step 3:Define class with name "jdbc" and define the main function.

Step 4:Declare objects for Connection, Statement, ResultSet and also declare the object for BufferedReader class.

Step 5:Declare local variables ch,rno,n as integer and na as String.

Step 6:Register the JdbcOdbcDriver and make a connection using getConnection() by giving Data Source Name "ORCL".

Step 7:

Define switch

case 1 for insert records,

case 2 for delete records,

case 3 for update records and case 4for Display records.

Step 8:Do Step 7 until will give choice > 4.

Step 9:Close Statement object and Connection object.

Step 10:Stop the Program.

SOURCE CODE:

```
// Use JDBC connectivity and create table, insert, update and delete data import java.io.*; import java.sql.*; class jdbc
```

```
{
public static void main(String ar[])throws Exception
Connection con:
Statement st;
ResultSet rs;
BufferedReader br=new BufferedReader (new
InputStreamReader(System.in));
int ch,rno,n;
String na;
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
con=DriverManager.getConnection("jdbc:odbc:stud");
st=con.createStatement();
do
System.out.println("DATABASE MANIPULATION USING JDBC");
System.out.println("1.Insert\n2.Delete\n3.Update\n4.Display");
System.out.println("Enter the choice");
ch=Integer.parseInt(br.readLine());
switch(ch)
case 1:
System.out.println("Enter Id to Insert:");
rno=Integer.parseInt(br.readLine());
System.out.println("Enter name to Insert:");
na=br.readLine();
try
n=st.executeUpdate("insert into student_tab values("+rno+",'"+na+"')");
System.out.println(n+" row Inserted!!");
catch(SQLException e) { }
break:
case 2:
```

```
System.out.println("Enter Id to Delete:");
rno=Integer.parseInt(br.readLine());
try
{
n=st.executeUpdate("delete * from student_tab where id="+rno);
System.out.println(n+" row Deleted!!");
catch(SQLException e){}
break:
case 3:
System.out.println("Enter Id to Edit:");
rno=Integer.parseInt(br.readLine());
System.out.println("Enter name to Edit:");
na=br.readLine();
try
n=st.executeUpdate("update student_tab set name='"+na+"' where
id="+rno);
System.out.println(n+" row Updated!!");
catch(SQLException e){}
break:
case 4:
try
rs=st.executeQuery("select * from student_tab");
System.out.println("ID\tNAME\n**************);
while(rs.next())
System.out.println(rs.getInt(1)+"\t"+rs.getString(2));
catch(SQLException e) { }
break;
```

```
default:
System.out.println("Invalid Choice");
}while(ch<=4);</pre>
st.close();
con.close();
OUTPUT:
DATABASE MANIPULATION USING JDBC
1..Insert
2.Delete
3.Update
4.Display
Enter Choice:
Enter Id to Insert:
111
Enter name to Insert:
haafi
1 row Inserted!!
DATABASE MANIPULATION USING JDBC
1.Insert
2.Delete
3.Update
4.Display
Enter Choice:4
ID NAME
******
111 haafi
```

222 sita	
DATABASE MANIPULATION USING JDBC	
1.Insert	
2.Delete	
3.Update	
4.Display	
Enter Choice:2	
Enter Id to Delete:	
222	
1 row Deleted!!	
DATABASE MANIPULATION USING JDBC	
1.Insert	
2.Delete	
3.Update	
4.Display	
Enter Choice:	
4	
ID NAME	

111 haafi	
DATABASE MANIPULATION USING JDBC	
1.Insert	
2.Delete	
3.Update.	
4 D: 1	
4.Display	
Enter Choice:3	
Enter Id to Edit:	
111 Enter name to Edite	
Enter name to Edit: haasika	
1 row Updated!! DATABASE MANIPULATION USING JDBC	
1.Insert	
2.Delete	
2.Detete	

3.Update 4.Display Enter Choice: 4 ID NAME ***** 111 haasika DATABASE MANIPULATION USING JDBC 1.Insert 2.Delete 3.Update 4.Display Enter Choice: 5 Invalid Choice.

JDBC Program Using Prepared Statement

Aim: write a java program using JDBC to perform insert and Select the Records.

Algorithm:

```
Step1:Start the program.
```

Step 2:Include packages java.io and java.sql.

Step 3:Define class with name "jdbc" and define the main function.

Step 4:Declare objects for Connection, Prepared Statement, ResultSet and also declare the object for BufferedReader class.

Step 5:Register the JdbcOdbcDriver and make a connection using getConnection() by giving Data Source Name "ORCL".

Step 6: Insert the Record.

Step 7: Select the Records from Table.

Step 8: Display Selected Records on Console.

Step 9: Close the Prepared Statement Object and Connection Object.

Step 10: Stop the Program.

Source Code:

```
import java.sql.*;
public class SelectPrepared {
  public static void main(String[] args) {
     Connection con = null;
     PreparedStatement ps = null;
     ResultSet rs = null;
     try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        con = DriverManager.getConnection(
```

```
"jdbc:oracle:thin:@localhost:1521:xe", "system", "manager");
      ps = con.prepareStatement("insert into employee values(?,?,?)");
      // set values to query parameters
      ps.setInt(1, 10);
      ps.setString(2, "Alice");
      ps.setString(3, "Hyd");
      int result = ps.executeUpdate();
      if (result != 0) {
         System.out.println("Record is successfully inserted");
       } else {
         System.out.println("Inserting record is failed");
      String qry = "select * from employee where ename = ?";
      ps = con.prepareStatement(qry);
      // set value to query parameter
      ps.setString(1, "Alice");
      rs = ps.executeQuery();
      System.out.println(" Selected Records:");
      System.out.println(" eid "+ "ename" + "Designation");
      System.out.println("----");
      while (rs.next()) {
         System.out.println(rs.getInt(1) + "\t" + rs.getString(2) + "\t"
      + rs.getString(3));
rs.close();
      ps.close();
      con.close();
    } catch (Exception e) {
      e.printStackTrace();
    }}}
```

Output:

Record is successfully inserted.

Selected Records:

Eid	ename	Designation
7	Vasavi	Assoc.Prof
8	Suresh	Assoc.Prof
9	Sukumar	Asst.Prof

Servlet Programming

3.1)Aim:-Write a Servlet Program to Display the Request Details.

Source Code:

Program1: Define the web.xml file.

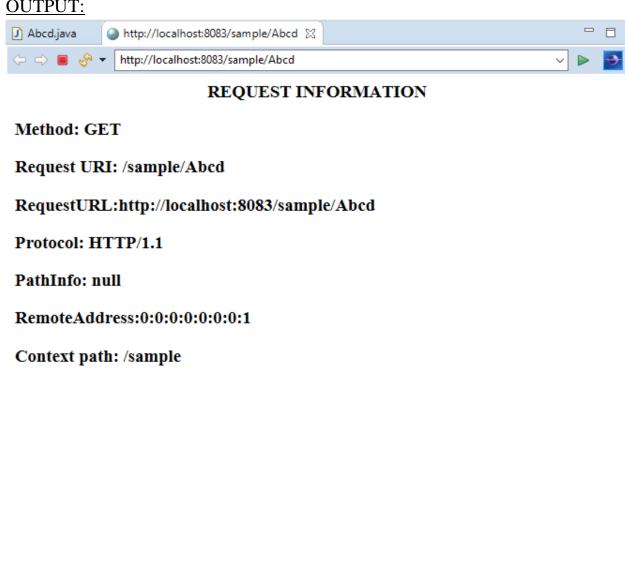
```
<web-app>
  <servlet>
  <servlet-name> RequestInfoSrv</servlet-name>
  <servlet-class> RequestInfoSrv</servlet-class>
  </servlet>
  <servlet-mapping>
  <servlet-name> RequestInfoSrv</servlet-name>
  <url-pattern>/request</url-pattern>
  </servlet-mapping >
  </servlet-mapping >
  </servlet-mapping >
  </servlet-mapping ></servlet-mapping ></servle
```

Program 2: RequestInfoSrv.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class RequestInfoSrv extends HttpServlet {
    protected void doGet(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException {
        resp.setContentType("text/html");
        PrintWriter out = resp.getWriter();
        out.println("<h3>REQUEST INFORMATION</h3>");
        out.println("<h3>Method: " + req.getMethod() + "</h3>");
        out.println("<h3>Request URI: " + req.getRequestURI() + "</h3>");
        out.println("<h3>RequestURL:" + req.getRequestURL() + "</h3>");
        out.println("<h3>RequestURL() + "</h3>");
        out.println("<h3>RequestURL() + "</h3>");
        out.println("<h3>RequestURL() + "</h3>");
        out.println("<h3>RequestURL() + "</h3>");
        out.println("<h3>Req
```

```
out.println("<h3>Protocol: " + req.getProtocol() + "</h3>");
           out.println("<h3>PathInfo: " + req.getPathInfo() + "</h3>");
           out.println("<h3>RemoteAddress:"+req.getRemoteAddr()+ </h3>");
           out.println("<h3>Context path: " + req.getContextPath() + "</h3>");
           //close stream out.close();
         }//doGet
}//class
```

OUTPUT:



3.2)Aim:-Write a Servlet Program to handle the User Form.

Source Code:

Program1: web.xml

```
<web-app>
  <servlet>
  <servlet-name>RequestParametersSrv</servlet-name>
  <servlet-class>RequestParametersSrv</servlet-class>
  </servlet>
  <servlet-mapping>
  <servlet-name>RequestParametersSrv</servlet-name>
  <url-pattern>/RequestParametersSrv</url-pattern>
  </servlet-mapping >
  </servlet-mapping >
  </web-app>
```

Program 2: RequestParams.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>RequestParams</title>
</head>
<body>
      <form action="RequestParametersSrv" method="get">
      <h1>Request Parameters</h1>
      Enter First Name: <input type="text" name="fname"><br>
      Enter Last Name: <input type="text" name="lname"><br>
                       <input type="text" name="cname"><br>
      Enter Course:
      <input type="submit" value="Submit">
      </form>
</body>
</html>
```

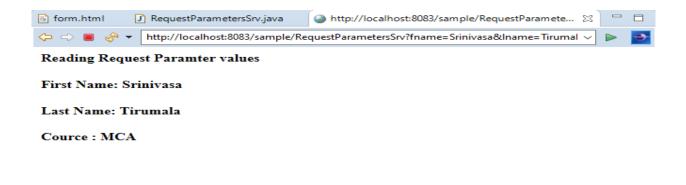
Program 3:RequestParametersSrv.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class RequestParametersSrv extends HttpServlet {
protected void doGet(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException {
     resp.setContentType("text/html");
     PrintWriter out = resp.getWriter();
     // reading request parameters
     String firstName = req.getParameter("fname");
     String lastName = req.getParameter("lname");
     String cource = req.getParameter("cname");
     out.println("<h4>Reading Request Paramter values</h4>");
out.println("<h4>First Name: " + firstName + "</h4>");
out.println("<h4>Last Name: " + lastName + "</h4>");
out.println("<h4>Cource : " + cource + "</h4>"); //close stream
     out.close();
  }//doGet
}//class
```

Output:



After pressing the Submit button in Form, we see the below output.



3.3)Aim:-Write a Servlet Program to create Cookie and Display Cookie.

Source Code:

Program1: web.xml

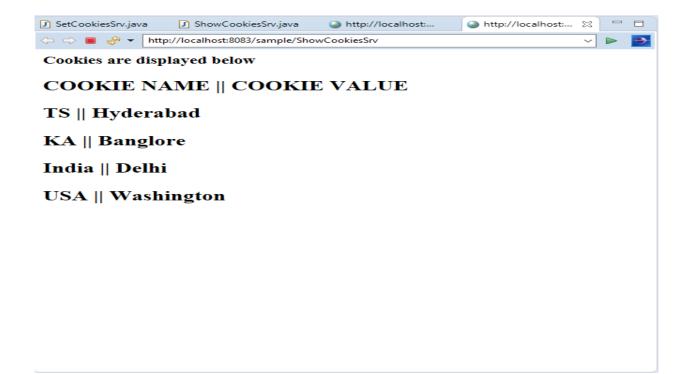
```
<web-app>
<servlet>
<servlet-name>SetCookiesSrv</servlet-name>
<servlet-class>SetCookiesSrv</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>SetCookiesSrv</servlet-name>
<url-pattern>/cookie</url-pattern>
</servlet-mapping>
```

```
<servlet>
 <servlet-name>ShowCookiesSrv</servlet-name>
 <servlet-class>ShowCookiesSrv</servlet-class>
 </servlet>
 <servlet-mapping>
 <servlet-name>ShowCookiesSrv</servlet-name>
 <url-pattern>/showcookie</url-pattern>
 </servlet-mapping >
</web-app>
Program2: setCookieSrv.java
       import java.io.*;
       import javax.servlet.*;
       import javax.servlet.http.*;
       public class SetCookiesSrv extends HttpServlet {
         protected void doGet(HttpServletRequest req, HttpServletResponse resp)
       throws ServletException, IOException {
           resp.setContentType("text/html");
           PrintWriter out = resp.getWriter();
           // create in memory cookies
           Cookie ck1 = new Cookie("TS", "Hyderabad"); Cookie ck2 = new
       Cookie("KA", "Banglore"); // add cookies
           resp.addCookie(ck1);
           resp.addCookie(ck2);
           // create persistent cookies
           Cookie ck3 = new Cookie("India", "Delhi");
           Cookie ck4 = new Cookie("USA", "Washington");
           ck3.setMaxAge(1800);
           ck4.setMaxAge(1800);
           // add cookies
```

```
resp.addCookie(ck3);
            resp.addCookie(ck4);
            // generate Response
            out.println("<h1>Cookies are successfully created</h1>");
            //close the stream out.close();
Program 3:showCookiesSrv.java
       import java.io.*;
       import javax.servlet.*;
       import javax.servlet.http.*;
       public class ShowCookiesSrv extends HttpServlet {
         protected void doGet(HttpServletRequest req, HttpServletResponse resp)
       throws ServletException, IOException {
            resp.setContentType("text/html");
            PrintWriter out = resp.getWriter();
            out.println("<h3>Cookies are displayed below</h3>");
            //read and display cookies
            Cookie ck[] = req.getCookies();
            //gives all cookies along with the request
            out.println("<h2> COOKIE NAME || COOKIE VALUE </h2>");
            if (ck != null) {
              for (Cookie cck : ck) {
                 out.println("<\!h2\!>"+cck.getName()+" \parallel "+cck.getValue()+
       "</h2>");
         }//doGet
}//class
```

Output:





3.4) Aim:-Write a Servlet Program to do Session Tracking.

Source Code:

```
Program1:web.xml
 <web-app>
       <servlet>
             <servlet-name> FirstSrv </servlet-name>
             <servlet-class>FirstSrv</servlet-</pre>
       class></servlet>
       <servlet-mapping>
             <servlet-name> FirstSrv </servlet-name>
             <url-pattern>/ FirstSrv </url-pattern>
       </servlet-mapping>
       <servlet>
             <servlet-name> SecondSry </servlet-name>
             <servlet-class>SecondSrv</servlet-</pre>
       class></servlet>
       <servlet-mapping>
             <servlet-name> SecondSrv </servlet-name>
             <url-pattern>/ SecondSrv </url-pattern>
       </servlet-mapping>
 </web-app>
 Program2: Session.html
 <!DOCTYPE html>
 <html>
 <head>
 <meta charset="ISO-8859-1">
 <title>SessionTraking</title>
 </head>
```

```
<body>
      <form action="FirstSrv" method="get">
      <h1 style="text-align: center;">HttpSession Tracking</h1><h1>IT Filling
      Registration</h1>
      Enter PName:<input type="text" name="pname">
      Enter FName:<input type="text" name="fname">
      <input type="submit" value="Continue">
      </form>
</body>
</html>
Program3:firstSrv.java
      import java.io.*;
      import java.util.*;
      import javax.servlet.*;
      import javax.servlet.http.*;
      public class FirstSrv extends HttpServlet {
        protected void doGet(HttpServletRequest reg, HttpServletResponse resp)
      throws ServletException, IOException {
          resp.setContentType("text/html");
          PrintWriter out = resp.getWriter();
          // read form1 data
          String pname = req.getParameter("pname");
          String fname = req.getParameter("fname");
          //create Session for browser window
          HttpSession ses = req.getSession(true);
          //store form1/req1 data in Session Attribute
          ses.setAttribute("pname", pname);
          ses.setAttribute("fname", fname);
          //generate dynamic form2 data
          out.println("<form
                                    action='SecondSrv'
                                                               method='get'>");
      out.println("<h1>SESSION TRACKING</h1>");
           out.println("<h1>IT FILING REGISTRATION</h1>");
          out.println("Income for this year <input type ='text' name='income'>");
           out.println("Tax <input type ='text' name='tax'>");
          out.println("<input type ='submit' value='Register'>");
          out.println("</form>");
```

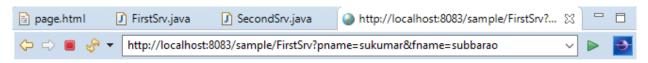
```
out.println("<br>Session ID: " + ses.getId());
           Date created = new Date(ses.getCreationTime());
           Date accessed = new Date(ses.getLastAccessedTime());
           out.println("Session Created: " + created);
           out.println("Last Accessed: " + accessed);
}
Program4:SecondSrv.java
      import java.io.*;
      import java.util.*;
      import javax.servlet.*;
      import javax.servlet.http.*;
      public class SecondSrv extends HttpServlet {
        protected void doGet(HttpServletRequest req, HttpServletResponse resp)
      throws ServletException, IOException {
          resp.setContentType("text/html");
           PrintWriter out = resp.getWriter();
           // read form2/reg2 data
           int income = Integer.parseInt(req.getParameter("income"));
           int tax = Integer.parseInt(req.getParameter("tax"));
           //Get access to Session object
           HttpSession ses = req.getSession(false);
           //read form2/req2 data from session attributes
           String pname = (String) ses.getAttribute("pname");
          String fname = (String) ses.getAttribute("fname");
           //display form1, form2 data
          out.println("<h1>SESSION TRACKING</h1>");
           out.println("<h1>FORM1 DATA: Name: " + pname + " & " +
      "F Name: "+fname + "<h1>");
           out.println("<h1>FORM2 DATA: Income: " + income + " & " + "Tax:
      " + tax+"</h1>");
          out.println("<br>Session ID: " + ses.getId()); Date created = new
      Date(ses.getCreationTime());
                                         Date
                                                    accessed
                                                                            new
      Date(ses.getLastAccessedTime());
          out.println("Session Created: " + created);
          out.println("Last Accessed: " + accessed);
           //invalidate the session ses.invalidate();
```

```
out.println("<a href='SessionTracking.html'><h4>Home</h4></a>");
Output:

☑ SecondSrv.java

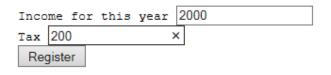
                                  Insert title here 
page.html
HttpSession Tracking
IT Filling Registration
 Enter PName: sukumar
 Enter FName: subbarao
  Continue
```

After pressing the continue button, we see below output.



SESSION TRACKING

IT FILING REGISTRATION



Session ID: 0D6ECA4F1584FB61D53DB6D31991E863

Session Created: 2022-04-05 Last Accessed: 2022-04-05

After pressing the Register button, we see the below output.



JSP Programming

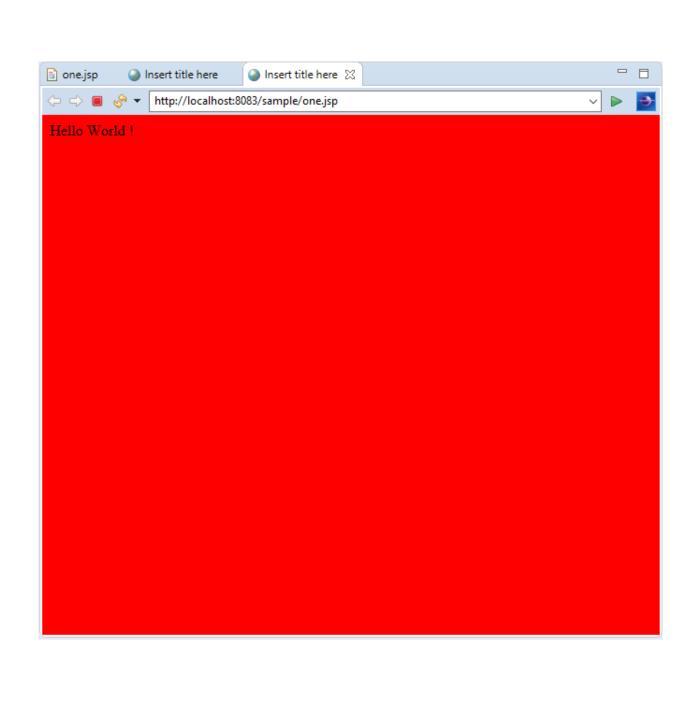
4.1)Aim:-Write a JSP Program to display the "Hello World".

Source Code:

Program:

```
<html>
<body>
<! -- This is the JSP file-->
<%
out.println ("Hello World !");
%>
</body>
</html>
```

Output:



4.2)Aim:-Write a JSP Program to demonstrate the Cookie.

Source Code:

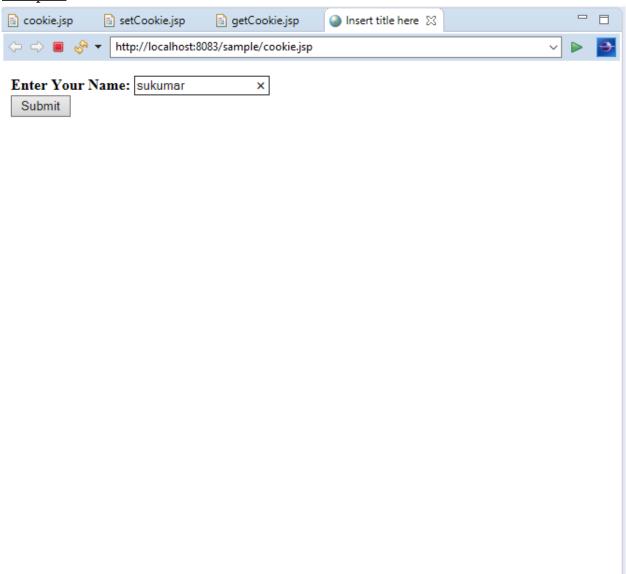
```
Program1: Cookieform.jsp
<%@ page language="java" %>
<html>
<head>
<title>Cookie Input Form</title>
</head>
<body>
<form method="post" action="setcookie.jsp">
<b>Enter Your Name: </b><input type="text" name="username"><br>
<input type="submit" value="Submit">
</form>
</body>
Program2:setCookie.jsp
< @ page language="java" import="java.util.*"%>
<%
String username=request.getParameter("username");
if(username==null) username="";
Date now = new Date();
String timestamp = now.toString();
Cookie cookie = new Cookie ("username", username);
cookie.setMaxAge(365 * 24 * 60 * 60);
response.addCookie(cookie);
%>
<html>
<head>
<title>Cookie Saved</title>
</head>
<body>
```

```
<a href="showcookievalue.jsp">Next Page to view the cookie value</a>
</body>
Program3:ShowCookie.jsp
<%@ page language="java" %>
<%
String cookieName = "username";
Cookie cookies [] = request.getCookies ();
Cookie myCookie = null;
if (cookies != null)
for (int i = 0; i < cookies.length; i++)
if (cookies [i].getName().equals (cookieName))
myCookie = cookies[i];
break;
%>
<html>
<head>
<title>Show Saved Cookie</title>
</head>
<body>
<%
if (myCookie == null) {
%>
No Cookie found with the name <%=cookieName%>
<%
```

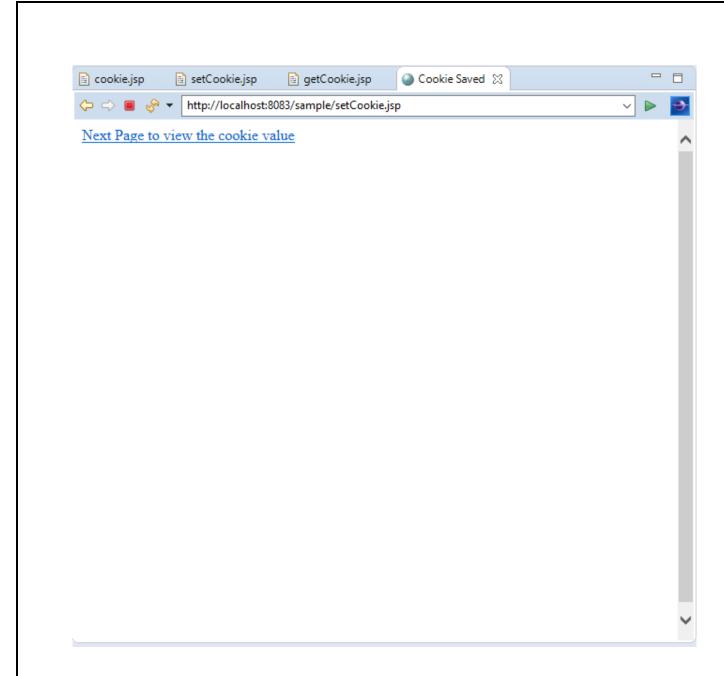
} else {

```
%>
Welcome: <%=myCookie.getValue()%>.
<%
}
%>
</body>
```

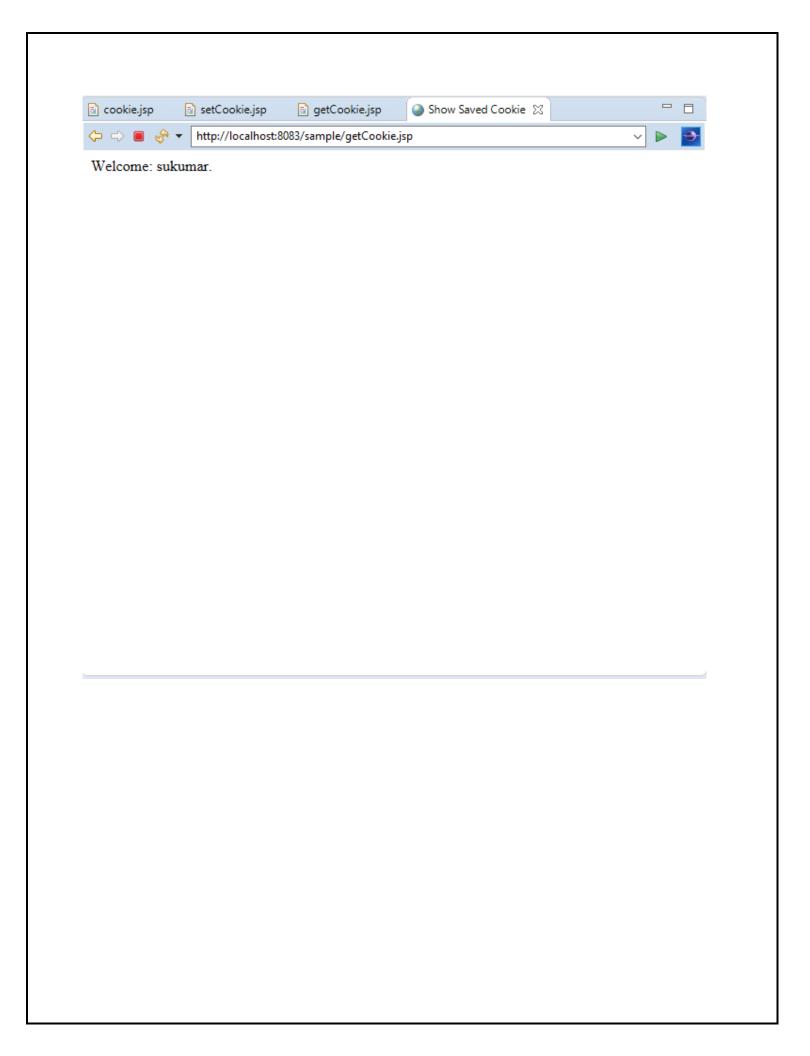
Output:



After pressing the submit button, we see the below output.



Click the Link "Next page to view the cookie value" to see the cookie.



EX.NO:5

Aim: write a java program to implement a Client/Server application using RMI.

Algorithm:

Program 1: Define the Remote Interface

Step 1:Start the program.

Step 2:Import the package java.rmi.*.

Step 3:Define interface "AddServerIntf" by extends from Remote.

Step 4:Declare the methods to perform arithmetic operation add, sub, mul, div, modulo and throwsRemoteException.

Step 5:Stop the program.

Program 2: Implement Remote Interface

Step 1:Start the program.

Step 2:Import the packages java.rmi.* and java.rmi.server.*.

Step 3:Define class AddServerImpl by extends from "UnicastRemoteObject" and implements "AddServerIntf".

Step 4:Define the procedure for interface methods by throwing RemoteException.

Step 5:Stop the program.

Program 3: Implementation of Server Machine

Step 1:Start the program.

Step 2:Import the packages java.rmi.* and java.net.*

Step 3:Define class server with main function.

Step 4:Create object for the class AddServerImpl.

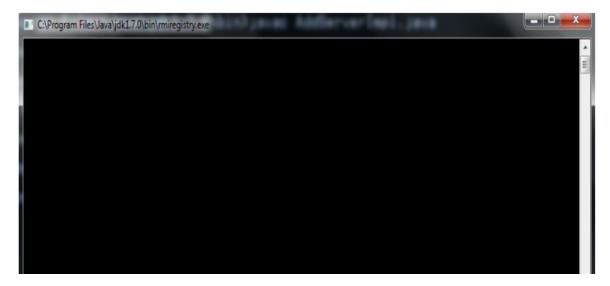
```
Step 5:Using naming.rebind() method add the interface to the server.
Step 6:Stop the program.
Program 4: Implementation of Client Machine
Step 1:Start the program.
Step 2:Define class "client" with main() function
Step 3:Create object for server interface with proper URL definition using
naming.lookup();
Step 4:Using this object call required methods and handling exception.
Step 5:Stop the program.
SOURCE CODE:
// 1. Define the Remote Interface
import java.rmi.*;
public interface AddServerIntf extends Remote
{
int add(int a,int b) throws RemoteException;
int sub(int a,int b) throws RemoteException;
int mul(int a,int b) throws RemoteException;
int div(int a,int b) throws RemoteException;
int mod(int a,int b) throws RemoteException;
}
// 2. Implement Remote Interface
import java.rmi.*;
import java.rmi.server.*;
public class AddServerImpl extends UnicastRemoteObject implements
AddServerIntf
public AddServerImpl() throws RemoteException
public int add(int a,int b)throws RemoteException
```

```
return (a+b);
public int sub(int a,int b)throws RemoteException
return (a-b);
public int mul(int a,int b)throws RemoteException
return (a*b);
public int div(int a,int b)throws RemoteException
return (a/b);
public int mod(int a,int b)throws RemoteException
return (a%b);
// 3. Implementation of Server Machine
import java.rmi.*;
import java.net.*;
public class AddServer
public static void main(String args[])
{
try
AddServerImpl obj = new AddServerImpl();
Naming.rebind("addserver", obj);
System.out.println("server started");
```

```
catch (Exception e)
System.out.println("Exception: " + e);
// 4. Implementation of Client Machine
import java.rmi.*;
import java.io.*;
public class AddClient
public static void main(String args[])
try
DataInputStream ds=new DataInputStream(System.in);
String s="rmi://MY-PC/addserver";
AddServerIntf obj = (AddServerIntf)Naming.lookup(s);
System.out.println("ENTER THE VALUES FOR a & b:");
int a=Integer.parseInt(ds.readLine());
int b=Integer.parseInt(ds.readLine());
System.out.println("ADDITION="+obj.add(a,b));
System.out.println("SUBTRACTION="+obj.sub(a,b));
System.out.println("MULTIPLICATION="+obj.mul(a,b));
System.out.println("DIVISION="+obj.div(a,b));
System.out.println("MODULODIVISION="+obj.mod(a,b));
catch (Exception e)
System.out.println("Exception: " + e);
```

OUTPUT: LOCAL HOST SERVER SIDE COMMAND WINDOW:

```
C:\Program Files\Java\jdk1.7.0\bin\javac AddServerIntf.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServerImpl.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServerImpl.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServer.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServer.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddClient.java
Note: AddClient.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
C:\Program Files\Java\jdk1.7.0\bin\rmic AddServerImpl
C:\Program Files\Java\jdk1.7.0\bin\start rmiregistry
```



```
C:\Program Files\Java\jdk1.7.0\bin\javac AddServerIntf.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServerImpl.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServer.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddServer.java
C:\Program Files\Java\jdk1.7.0\bin\javac AddClient.java
Note: AddClient.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
C:\Program Files\Java\jdk1.7.0\bin\rmic AddServerImpl
C:\Program Files\Java\jdk1.7.0\bin\rmic AddServerImpl
C:\Program Files\Java\jdk1.7.0\bin\rmic\rmiregistry
C:\Program Files\Java\jdk1.7.0\bin\java AddServer
Server started
```

LOCAL HOST CLIENT SIDE COMMAND WINDOW:

```
C:\Program Files\Java\jdk1.7.0\bin\java AddClient
ENTER THE UALUES for a & b:

10

ADDITION=13
SUBTRACTION=7
MULTIPLICATION=30
DIVISION=3
MODULODIVISON=1

C:\Program Files\Java\jdk1.7.0\bin>_
```

RESULT:

The above program has been executed successfully and the output was verified.