**index.html:**

<html>

<body>

<form action="hello" method="get">

<input type="submit" value="Get Hit Count">

</form>

</body>

</html>

**web.xml**

<web-app>

<servlet>

<servlet-name>session1</servlet-name>

<servlet-class>serv1</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>session1</servlet-name>

<url-pattern>/hello</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>session2</servlet-name>

<servlet-class>serv2</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>session2</servlet-name>

<url-pattern>/hello2</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>session3</servlet-name>

<servlet-class>serv3</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>session3</servlet-name>

<url-pattern>/hello3</url-pattern>

</servlet-mapping>

</web-app>

**serv1.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv1 extends HttpServlet{

public void doGet(HttpServletRequest req,HttpServletResponse res)throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

int a;

HttpSession s=req.getSession(true);

if(s.isNew())

{

a=1;

s.setAttribute("count",a);

}

else

{

a=(int)s.getAttribute("count");

a++;

s.setAttribute("count",a);

}

pw.println("Hit count:"+a);

pw.println("<br>");

pw.println("<a href='hello2'>GO</a>");

}}

**serv2.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv2 extends HttpServlet{

public void doGet(HttpServletRequest req,HttpServletResponse res)throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

HttpSession s=req.getSession(false);

int a=(int)s.getAttribute("count");

++a;

pw.println("Hit count:"+a);

s.setAttribute("count",a);

pw.println("<br>");

pw.println("<a href='hello3'>go</a>");

}

}

**serv3.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv3 extends HttpServlet{

public void doGet(HttpServletRequest req,HttpServletResponse res)throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

HttpSession s=req.getSession(false);

int a=(int)s.getAttribute("count");

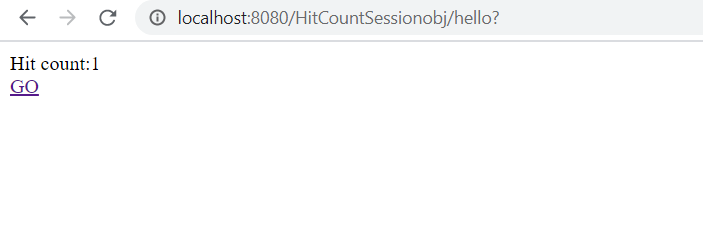
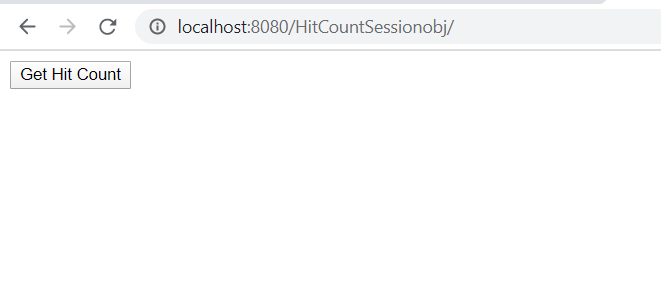
++a;

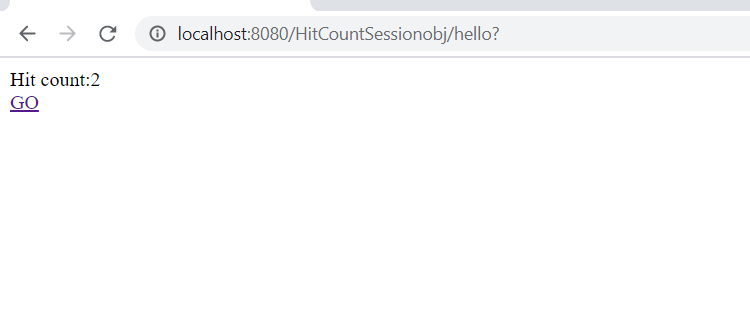
pw.println("Hit count:"+a);

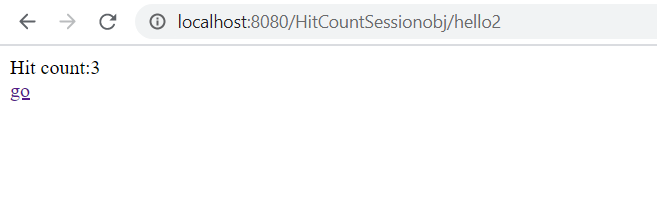
s.setAttribute("count",a);

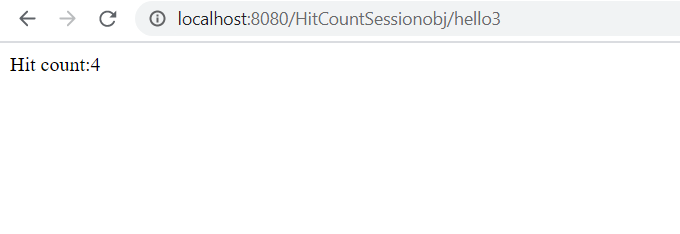
}}

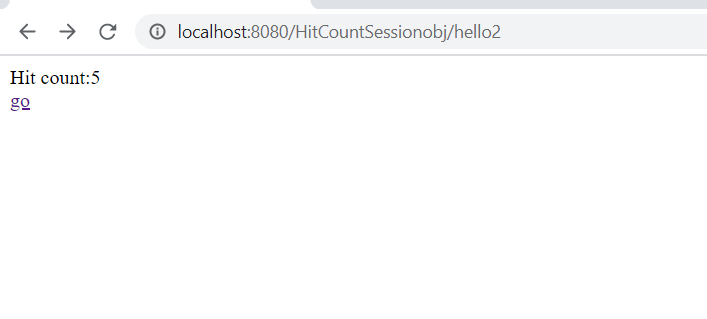
**OUTPUT:**











**serv1.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv1 extends HttpServlet

{

public void doGet(HttpServletRequest req,HttpServletResponse res)

throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

int c=1;

pw.println("<form action='hello2'>");

pw.println("<input type='hidden' name='hit\_cnt' value='"+c+"'>");

pw.println("Hit count: "+c);

pw.println("<input type='submit' value='click here'>");

pw.println("</form>");

}

}

**serv2.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv2 extends HttpServlet

{

public void doGet(HttpServletRequest req,HttpServletResponse res)

throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

String str=req.getParameter("hit\_cnt");

int c=Integer.parseInt(str);

c++;

pw.println("Hit count: "+c);

pw.println("<form action='hello3'>");

pw.println("<input type='hidden' name='hit\_cnt' value='"+c+"'>");

pw.println("<input type='submit' value='click here'>");

pw.println("</form>");

}

}

**serv3.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class serv3 extends HttpServlet

{

public void doGet(HttpServletRequest req,HttpServletResponse res)

throws ServletException,IOException

{

res.setContentType("text/html");

PrintWriter pw=res.getWriter();

String str=req.getParameter("hit\_cnt");

int c=Integer.parseInt(str);

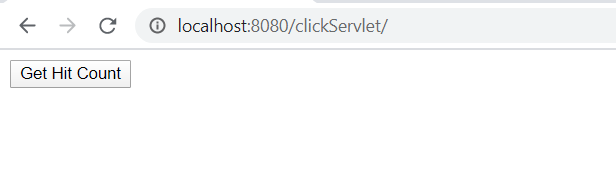
c++;

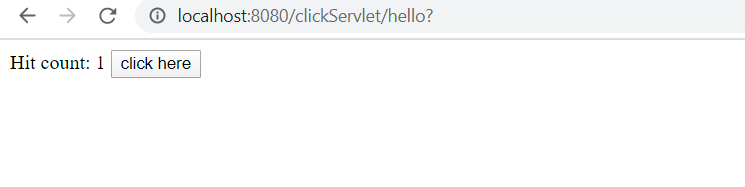
pw.println("Hit count: "+c);

}

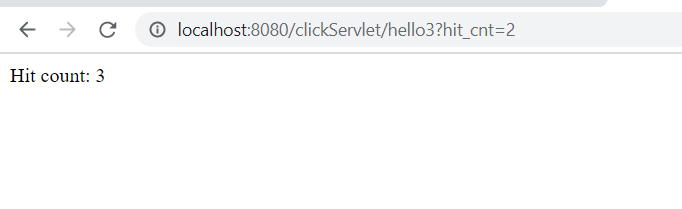
}

**OUTPUT**

****

****

****

****

**index.html**

<html>

<body>

<form method="get" action="welcome.jsp">

Name: <input type="text" name="u\_name">

<br/>

<input type="submit">

</form>

**welcome.jsp**

<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>

<html>

<body>

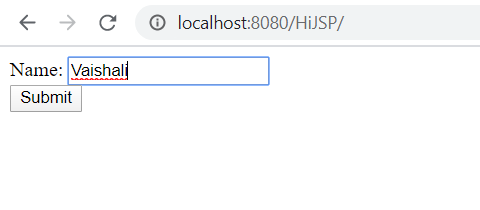
<c:out value ="WELCOME"/>

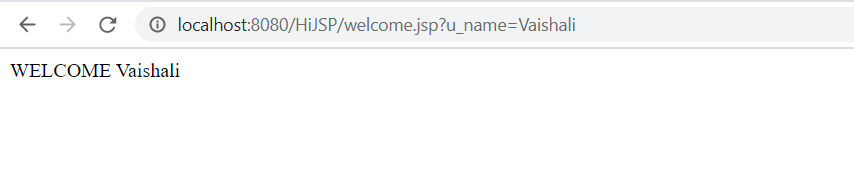
<c:out value="${param.u\_name}"/>

</body>

</html>

**OUTPUT:**

****

****

**index.html**

<html>

<body>

<form method="get" action="data.jsp">

<input type="submit">

</form>

**data.jsp**

<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>

<%@ taglib prefix = "sql" uri = "http://java.sun.com/jsp/jstl/sql" %>

<html>

<body>

<sql:setDataSource var="snapshot"

driver="com.mysql.jdbc.Driver"

url="jdbc:mysql://localhost/test1"

user="root" password="vaishu"/>

<sql:query dataSource="${snapshot}" var="result">

SELECT \* FROM student1;

</sql:query>

<c:forEach var="row" items="${result.rows}">

<c:out value="${row.id}"/>

<c:out value="${row.name}"/>

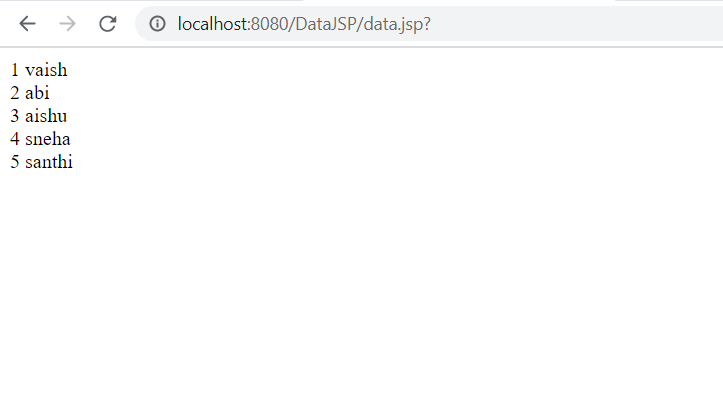
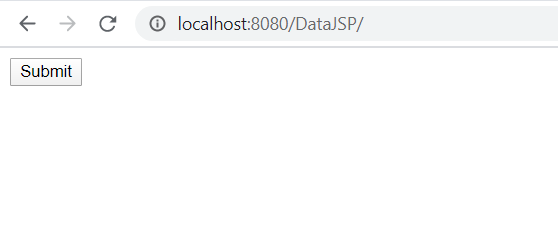
<% out.println("<br/>"); %>

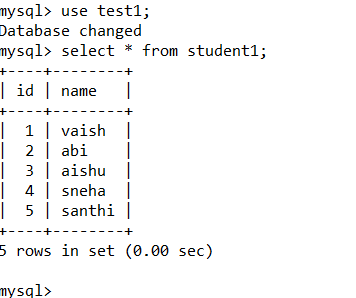
</c:forEach>

</body>

</html>

**OUTPUT**

****

****

**index.html**

<html>

<body>

<h1>CRUD OPERATIONS USING SERVLET</h1>

<br>

<form action="Insert" method="get">

<fieldset>

<legend>CREATE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<label>Enter name

<input type="text" name="u\_name">

</label>

<br>

<input type="submit" value="INSERT">

</fieldset>

</form>

<form action="Delete" method="get">

<fieldset>

<legend>REMOVE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<input type="submit" value="DELETE">

</fieldset>

</form>

<form action="Update" method="get">

<fieldset>

<legend>UPDATE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<label>Enter new name

<input type="text" name="u\_name">

</label>

<br>

<input type="submit" value="UPDATE">

</fieldset>

</form>

<form action="Select" method="get">

<fieldset>

<legend>DISPLAY</legend>

<label>View Database </label>

<input type="submit" value="DISPLAY">

</fieldset>

</form>

</body>

</html>

**select.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.sql.\*;

public class select extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws IOException, ServletException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Connection con;

Statement stmt;

ResultSet rs;

String url="jdbc:mysql://localhost:3306/test1";

String user="root";

String pass="vaishu";

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection(url,user,pass);

//System.out.println("Connected");

out.println("<html>");

out.println("<body>");

String sql;

sql="select \* from student1";

stmt=con.createStatement();

rs=stmt.executeQuery(sql);

out.println("<pre>ID NAME</pre>");

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

}catch(ClassNotFoundException ex){

//System.out.println("sql error"+ex.getMessage());

}

catch(SQLException ex){

// System.out.println("sql error"+ex.getMessage());

}

out.println("</body></html>");

out.close();

}

}

**insert.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.sql.\*;

public class insert extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws IOException, ServletException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Connection con;

Statement stmt;

ResultSet rs;

String url="jdbc:mysql://localhost:3306/test1";

String user="root";

String pass="vaishu";

out.println("<html>");

out.println("<body>");

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection(url,user,pass);

//out.println("<p>connected</p>");

stmt=con.createStatement();

String sql;

sql="select \* from student1";

out.println("<p>Before insertion: </p>");

out.println("<pre>ID NAME</pre>");

rs=stmt.executeQuery(sql);

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

String str=request.getParameter("u\_id");

int id=Integer.parseInt(str);

String name=request.getParameter("u\_name");

PreparedStatement pstmt= con.prepareStatement("insert into student1 values(?,?)");

pstmt.setInt(1,id);

pstmt.setString(2,name);

int i=pstmt.executeUpdate();

if(i==1)

out.println("<p>Record inserted</p>");

else

out.println("<p>Record not inserted</p>");

rs=stmt.executeQuery(sql);

out.println("<p>After insertion: </p>");

out.println("<pre>ID NAME</pre>");

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

}catch(ClassNotFoundException ex){

out.println("<p>class error"+ex.getMessage()+"</p>");

}

catch(SQLException ex){

out.println("<p>sql error"+ex.getMessage()+"</p>");

}

out.println("</body></html>");

out.close();

}

}

**update.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.sql.\*;

public class update extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws IOException, ServletException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Connection con;

Statement stmt;

ResultSet rs;

String url="jdbc:mysql://localhost:3306/test1";

String user="root";

String pass="vaishu";

out.println("<html>");

out.println("<body>");

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection(url,user,pass);

//out.println("<p>connected</p>");

String sql;

sql="select \* from student1";

stmt=con.createStatement();

rs=stmt.executeQuery(sql);

out.println("<p>Before updation: </p>");

out.println("<pre>ID NAME</pre>");

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

String str=request.getParameter("u\_id");

int id=Integer.parseInt(str);

String name=request.getParameter("u\_name");

out.println("<p>got: </p>"+name);

PreparedStatement pstmt= con.prepareStatement("update student1 set name=? where id=?");

pstmt.setString(1,name);

pstmt.setInt(2,id);

int i=pstmt.executeUpdate();

if(i==1)

out.println("<p>Record updated</p>");

else

out.println("<p>Record not updated</p>");

rs=stmt.executeQuery(sql);

out.println("<p>After updation: </p>");

out.println("<pre>ID NAME</pre>");

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

}catch(ClassNotFoundException ex){

out.println("<p>class error"+ex.getMessage()+"</p>");

}

catch(SQLException ex){

out.println("<p>sql error"+ex.getMessage()+"</p>");

}

out.println("</body></html>");

out.close();

}

}

**delete.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.sql.\*;

public class delete extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws IOException, ServletException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Connection con;

Statement stmt;

ResultSet rs;

String url="jdbc:mysql://localhost:3306/test1";

String user="root";

String pass="vaishu";

out.println("<html>");

out.println("<body>");

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection(url,user,pass);

//out.println("<p>connected</p>");

String sql;

sql="select \* from student1";

stmt=con.createStatement();

out.println("<p>Before deletion: </p>");

out.println("<pre>ID NAME</pre>");

rs=stmt.executeQuery(sql);

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

String str=request.getParameter("u\_id");

int id=Integer.parseInt(str);

PreparedStatement pstmt= con.prepareStatement("delete from student1 where id=?");

pstmt.setInt(1,id);

int i=pstmt.executeUpdate();

if(i==1)

out.println("<p>Record deleted</p>");

else

out.println("<p>Record not deleted</p>");

out.println("<p>After deletion: </p>");

out.println("<pre>ID NAME</pre>");

rs=stmt.executeQuery(sql);

while(rs.next())

{

out.println("<p>"+rs.getInt(1)+" "+rs.getString(2)+"</p>");

}

}catch(ClassNotFoundException ex){

out.println("<p>class error"+ex.getMessage()+"</p>");

}

catch(SQLException ex){

out.println("<p>sql error"+ex.getMessage()+"</p>");

}

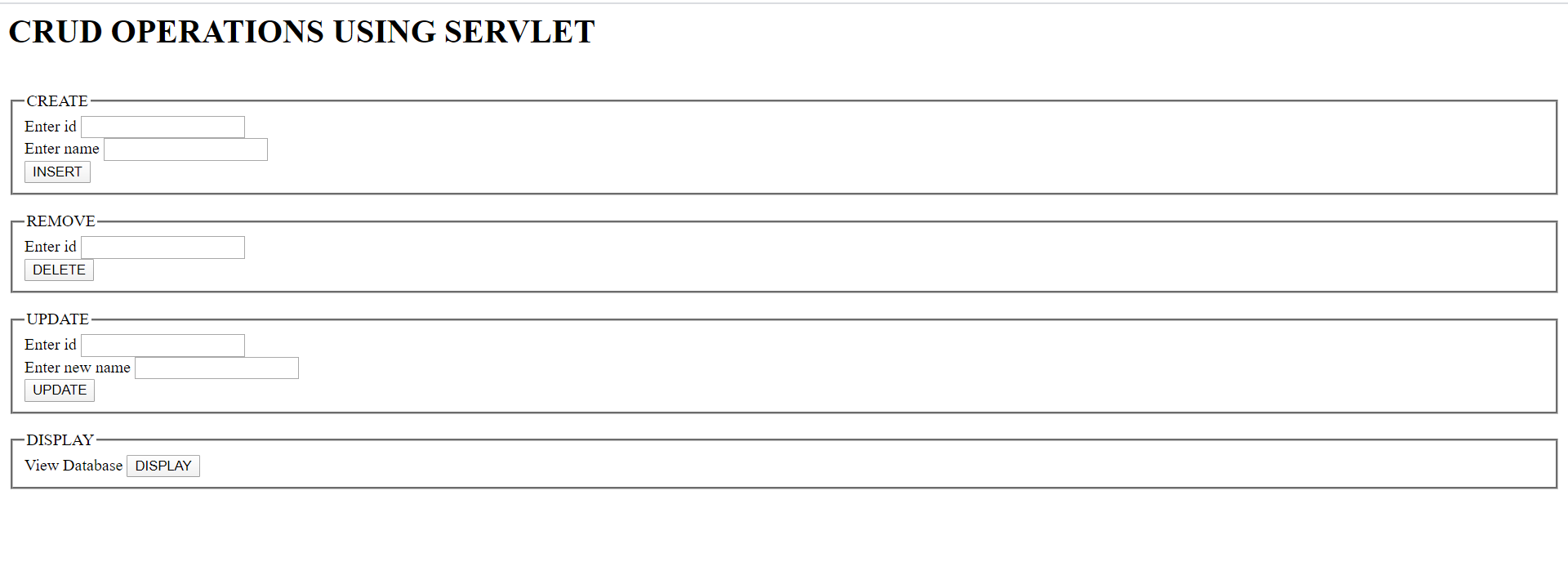
out.println("</body></html>");

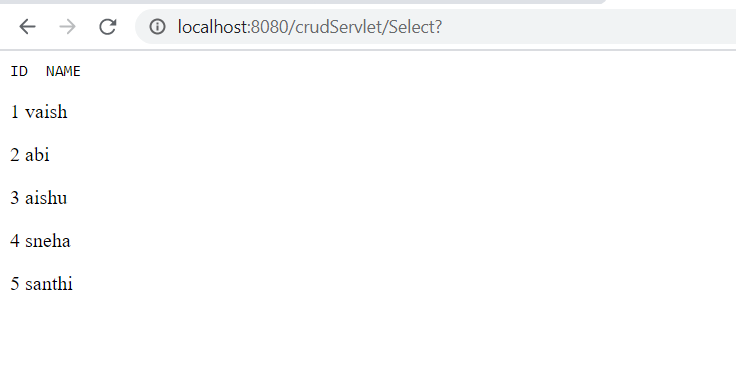
out.close();

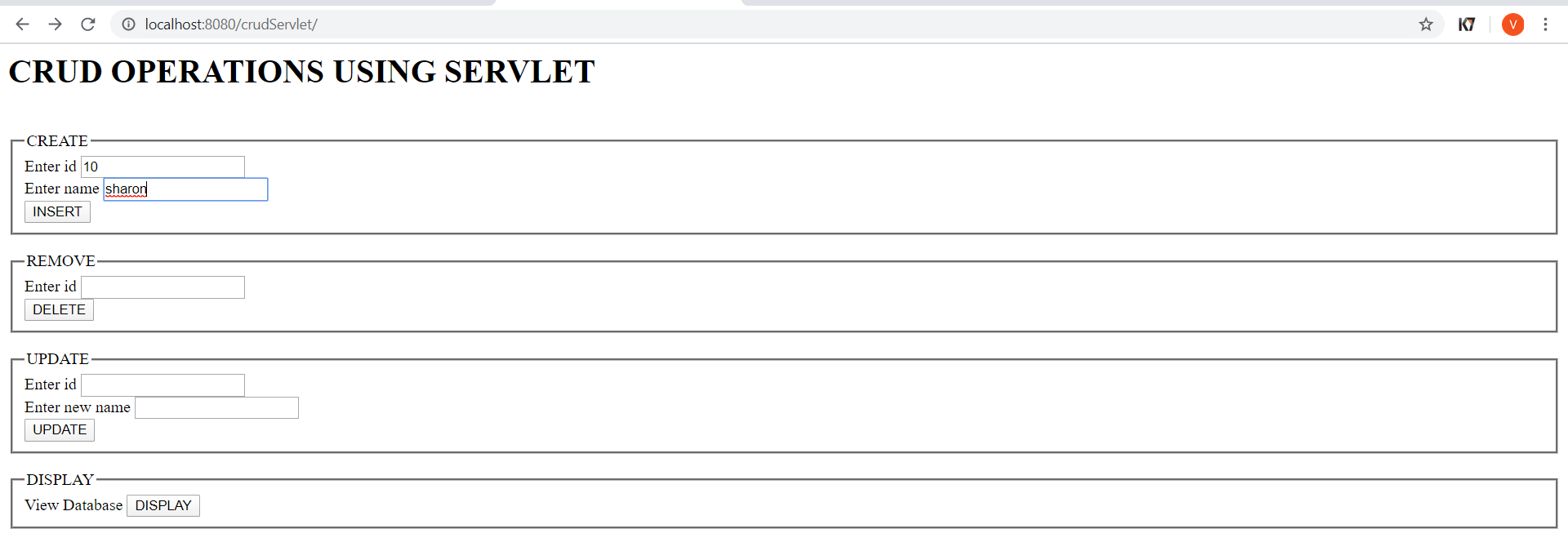
}

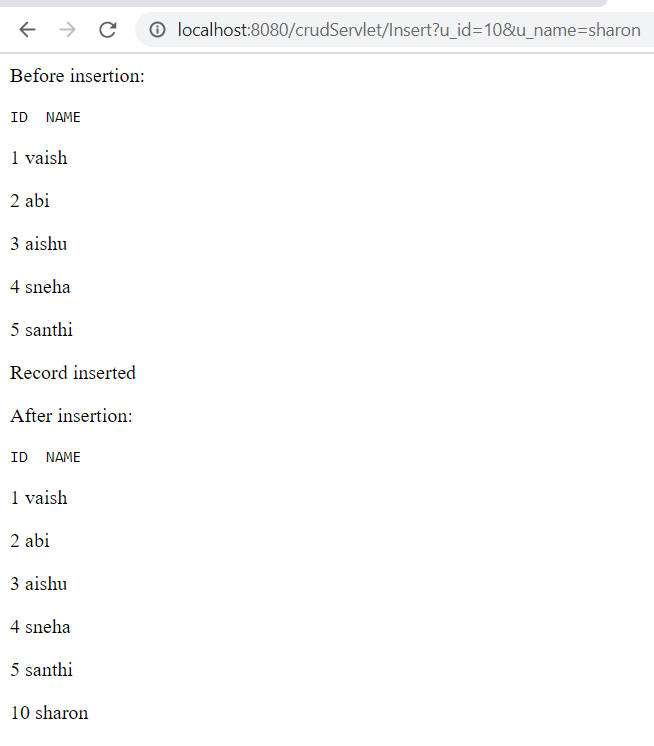
}

**OUTPUT:**

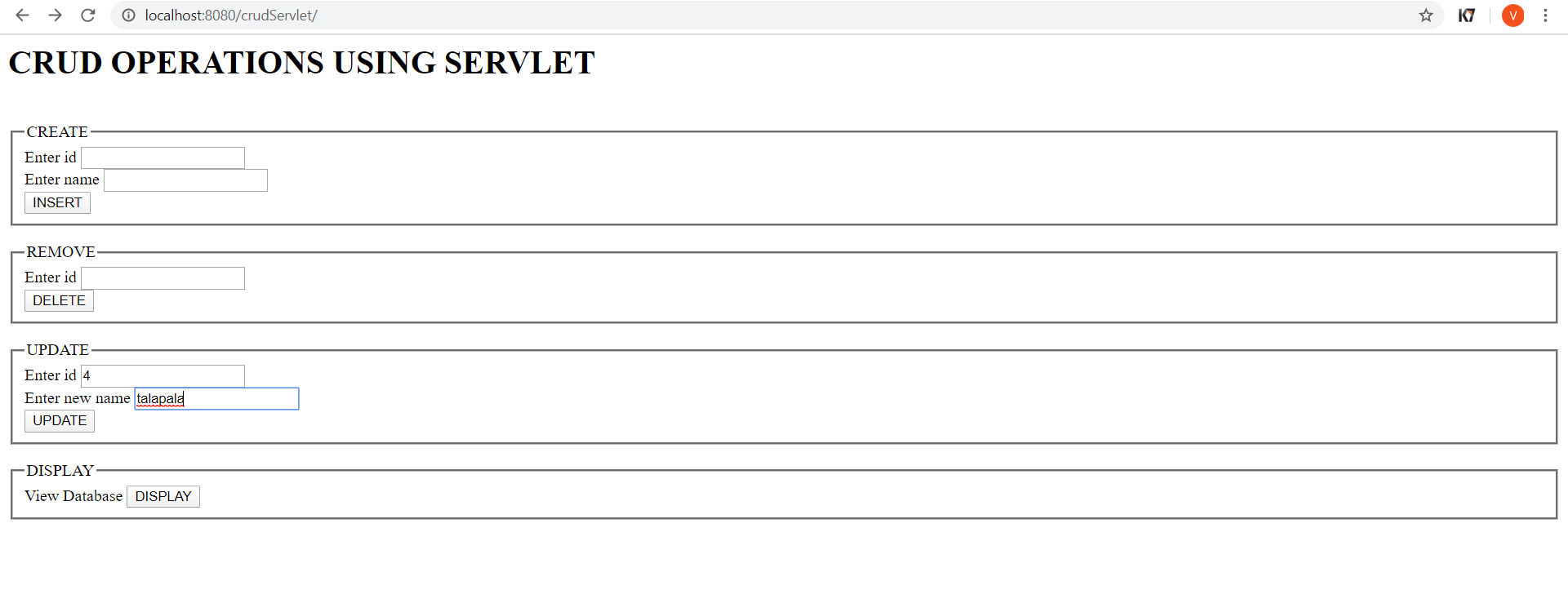


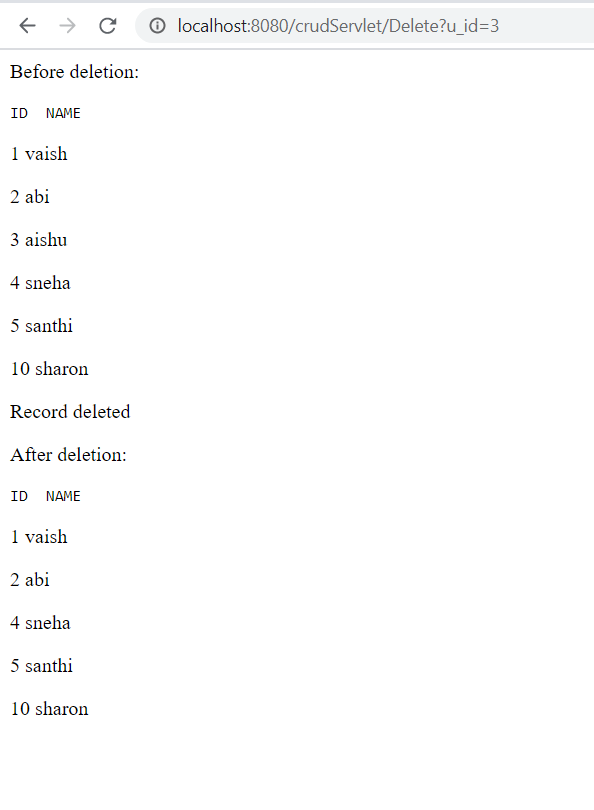


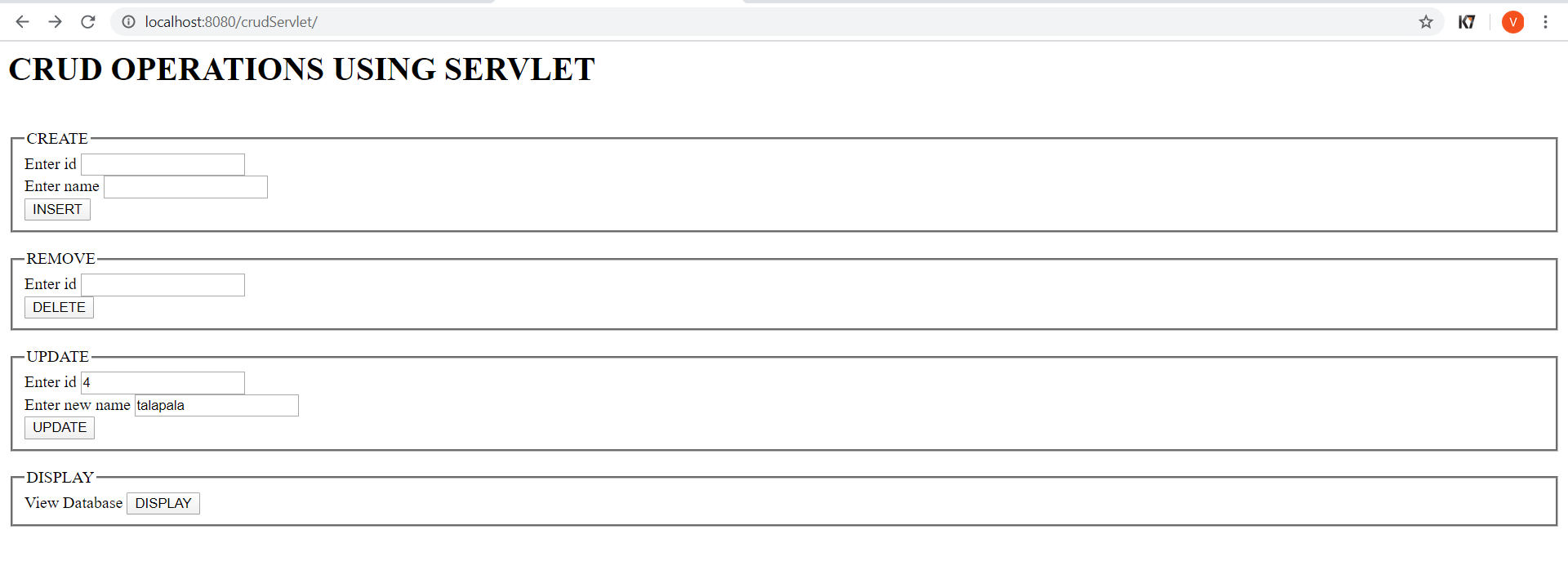


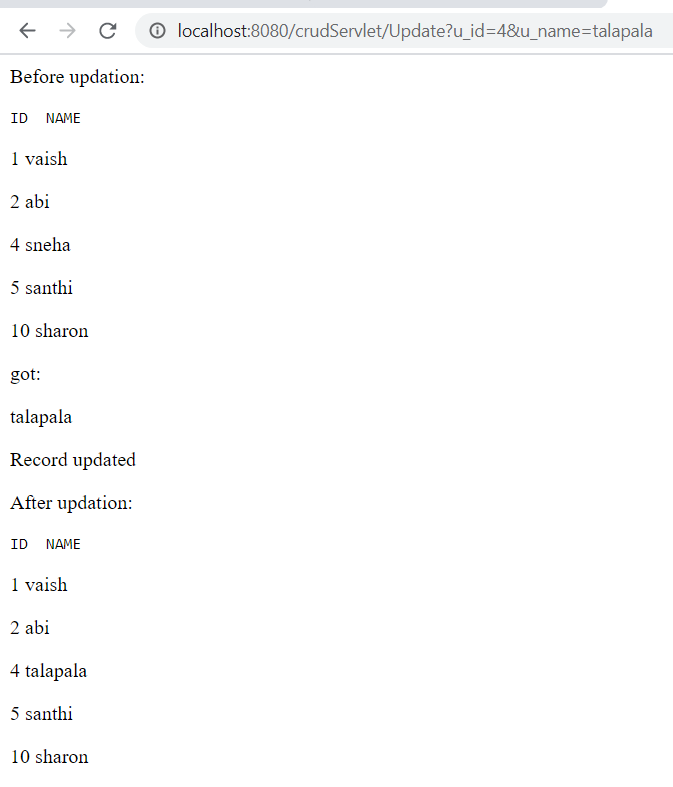












**index.html**

<html>

<body>

<h1>CRUD OPERATIONS USING JSP</h1>

<br>

<form action="Insert.jsp" method="get">

<fieldset>

<legend>CREATE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<label>Enter name

<input type="text" name="u\_name">

</label>

<br>

<input type="submit" value="INSERT">

</fieldset>

</form>

<form action="Delete.jsp" method="get">

<fieldset>

<legend>REMOVE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<input type="submit" value="DELETE">

</fieldset>

</form>

<form action="Update.jsp" method="get">

<fieldset>

<legend>UPDATE</legend>

<label>Enter id

<input type="text" name="u\_id">

</label>

<br>

<label>Enter new name

<input type="text" name="u\_name">

</label>

<br>

<input type="submit" value="UPDATE">

</fieldset>

</form>

<form action="Select.jsp" method="get">

<fieldset>

<legend>DISPLAY</legend>

<label>View Database </label>

<input type="submit" value="DISPLAY">

</fieldset>

</form>

</body>

</html>

**select.jsp**

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>

<html>

<body>

<sql:setDataSource var="snapshot" driver="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost/test1" user="root" password="vaishu"/>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

</body>

</html>

**Insert.jsp**

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>

<html>

<body>

<sql:setDataSource var="snapshot" driver="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost/test1" user="root" password="vaishu"/>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>Before Insertion</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

<sql:update dataSource="${snapshot}" var="count">

INSERT INTO student1 (id,name) VALUES (?, ?);

<sql:param value="${param.u\_id}" />

<sql:param value="${param.u\_name}" />

</sql:update>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>After Insertion</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

</body>

</html>

**Delete.jsp**

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>

<html>

<body>

<sql:setDataSource var="snapshot" driver="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost/test1" user="root" password="vaishu"/>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>Before Deletion</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

<sql:update dataSource="${snapshot}" var="count">

Update student1 set name='${param.u\_name}' where id='${param.u\_id}';

</sql:update>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>After Deletion</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

</body>

</html>

**Update.jsp**

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>

<html>

<body>

<sql:setDataSource var="snapshot" driver="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost/test1" user="root" password="vaishu"/>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>Before Updation</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

<sql:update dataSource="${snapshot}" var="count">

Update student1 set name='${param.u\_name}' where id='${param.u\_id}';

</sql:update>

<sql:query dataSource="${snapshot}" var="result">

select \* from student1;

</sql:query>

<p>After Updation</p>

<table border="1" cellspacing="5" cellpadding="5">

<tr><th>ID</th><th>NAME</th></tr>

<c:forEach var="row" items="${result.rows}">

<tr>

<td><c:out value="${row.id}"/></td>

<td><c:out value="${row.name}"/></td>

</tr>

</c:forEach>

</table>

</body>

</html>

**OUTPUT**:



