

## **PracticalNo 01.**

**a.**    Problem: - Create a simple calculator application using servlet.

**Source Code:-**

**Index.html:**

```
<html>
<body>
<form action="calculator" method="post">
    First number :<input type="text" name="t1" >
<select name="s">
<option value="+">+</option>
<option value="-">-</option>
<option value="*">*</option>
<option value="/">/</option>
<option value="% ">% </option>
</select>
    Second number <input type="text" name="t2" ><br>
<input type="submit" value="submit ">
</form>
</body>
</html>
```

**Calculator.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

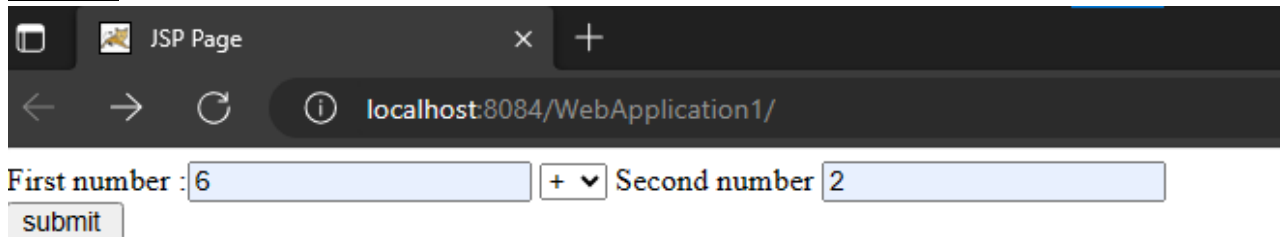
public class calculator extends HttpServlet {
    public void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        int a1 = Integer.parseInt(request.getParameter("t1"));
        int a2 = Integer.parseInt(request.getParameter("t2"));
```

# Enterprise Java

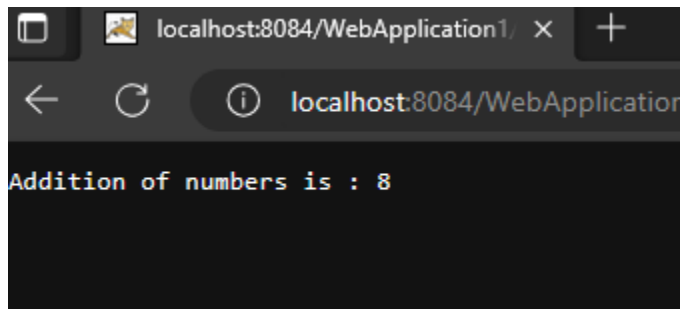
---

```
String op = request.getParameter("s");
if (op.equals("+")) {
    out.println("Addition of numbers is : " + (a1 + a2));
}
if (op.equals("-")) {
    out.println("Substraction of numbers is : " + (a1 - a2));
}
if (op.equals("*")) {
    out.println("Multiplication of numbers is : " + (a1 * a2));
}
if (op.equals("/")) {
    out.println("Division of numbers is : " + (a1 / a2));
}
if (op.equals("%")) {
    out.println("Reminder of numbers is : " + (a1 % a2));
}
}
```

## Output:



A screenshot of a web browser window. The title bar shows 'JSP Page'. The address bar shows 'localhost:8084/WebApplication1/'. Below the address bar, there are two input fields: 'First number : 6' and 'Second number 2'. Between them is a dropdown menu with a '+' sign. Below the input fields is a 'submit' button.



A screenshot of a web browser window showing the output of the JSP page. The address bar shows 'localhost:8084/WebApplication1/'. The main content area displays the text 'Addition of numbers is : 8'.

## **Practical No 01.**

**b. Problem:-** Create a servlet for a login page. If the username and password are correct then it says message "Hello <username>" else a message "login failed"

### **Source Code:-**

#### **Index.html:**

```
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form action="H_serv" method="post">
    username:<input type="text" name="uname"/><br>
    password:<input type="password" name="pass"/><br>
<input type="submit" value="login"/>
</form>
</body>
</html>
```

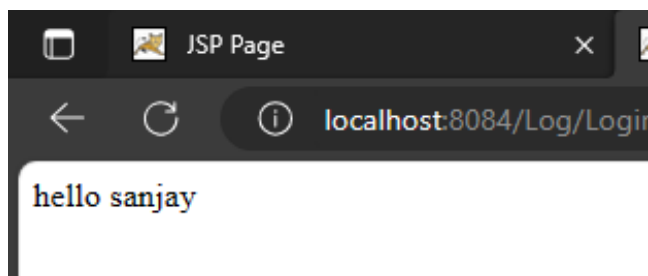
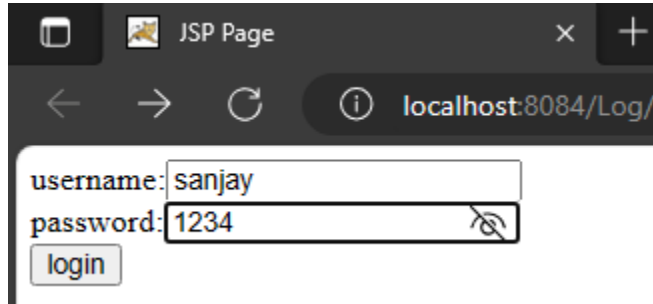
#### **H\_serv.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Login extends HttpServlet
{
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try
        {
            String name="sanjay";
            String p1="1234";
            String s=request.getParameter("uname");
            String p= request.getParameter("pass");
            out.println("<!DOCTYPE html>");
        }
    }
}
```

```
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet Login</title>");
out.println("</head>");
out.println("<body>");
    if(name.equals(s))
    {
        if(p1.equals(p))
        {
            out.println("hello "+ s );
        }
    }
    else
        out.println("login failed");
out.println("</body>");
out.println("</html>");
}
catch(Exception e){ }
}
}
```

### **Output:**



## **Practical No 01.**

**C. Problem:-** Create a registration servlet in Java using JDBC. Accept the details such as Username, Password, Email, and Country from the user using HTML Form and store the registration details in the database.

### **Source Code:-**

#### **Index.html:**

```
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
    Registration Form <br/><br/>
<form action="Registration" method="post">
    userid:<input type="text" name="t1">
    passwd:<input type="password" name="t2">
    fname:<input type="text" name="t3">
    lname:<input type="text" name="t4">
    email:<input type="text" name="t5">
<input type="submit" value="Register">
</form>
</body>
</html>
```

#### **Registration.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import javax.sql.*;

public class Registration extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        String id=request.getParameter("t1");
```

```
String p=request.getParameter("t2");
String fn=request.getParameter("t3");
String ln=request.getParameter("t4");
String em=request.getParameter("t5");
PrintWriter out = response.getWriter();
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Reg","root","123");
    PreparedStatement ps=con.prepareStatement("insert into user values(?,?,?,?)");
    ps.setString(1,id);
    ps.setString(2,p);
    ps.setString(3,fn);
    ps.setString(4,ln);
    ps.setString(5,em);
    ps.executeUpdate();
    out.println("<html>");
    out.println("<body>");
    out.println("Registration is successful !!!");
    out.println("</body>");
    out.println("</html>");
}
catch(Exception e)
{
    out.println("<html>");
    out.println("<body>");
    out.println("Your Registration is unsuccessful:"+e);
    out.println("</body>");
    out.println("</html>");
}
}
```

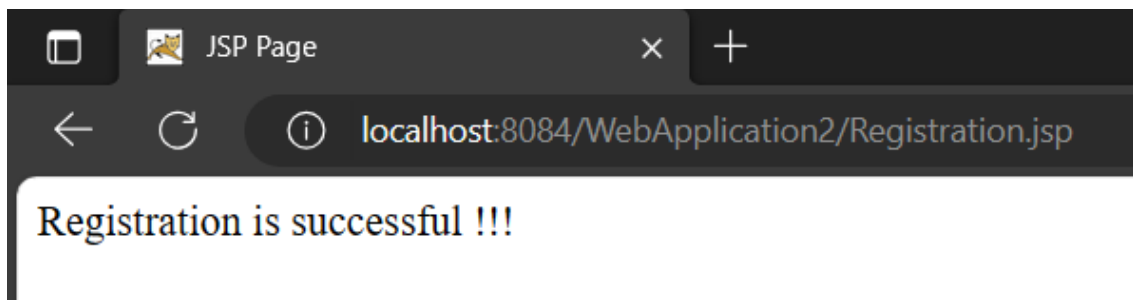
### Output:

---

#### Registration Form

userid:	<input type="text" value="50"/>
passwd:	<input type="password" value="..."/>
fname:	<input type="text" value="sanju"/>
lname:	<input type="text" value="chau"/>
email:	<input type="text" value="sc2171"/>
<input type="button" value="Register"/>	

---



## **Practical No 02.**

**a. Problem:-** Using Request Dispatcher Interface create a Servlet which will validate the password entered by the user, if the user has entered "Servlet" as password, then he will be forwarded to Welcome Servlet else the user will stay on the index.html page and an error message will be displayed.

### **Source Code:-**

#### **Index.html**

```
<html>

<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form method="post" action="Login">
    Enter User Name: <input type="text" name="uname"/>
    Enter Password:<input type="password" name="pass"/>
<input type="submit" value="Login"/>
</form>
</body>
</html>
```

#### **Login.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.RequestDispatcher;
public class Login extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        String p=request.getParameter("pass");
        String p1="Servlet";
        try (PrintWriter out = response.getWriter()) {
            if(p.equals(p1))
            {
                RequestDispatcher rd=request.getRequestDispatcher("Welcome");
                rd.forward(request, response);
            }
        }
    }
}
```



```
        else
        {
            RequestDispatcher rd=request.getRequestDispatcher("Error");
            rd.forward(request, response);
        }
    }
}
```

## **Welcome.java**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

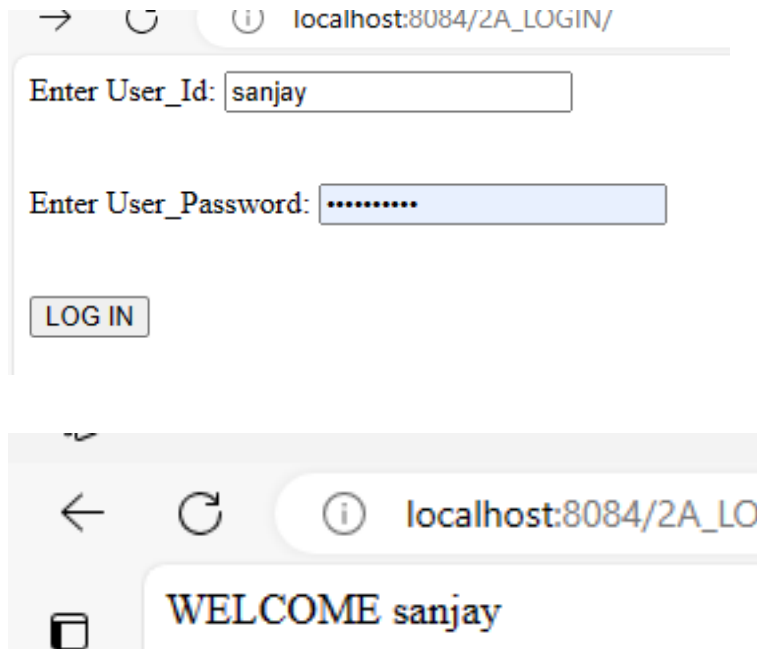
public class Welcome extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet Welcome</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>Welcome " + request.getParameter("uname")+ "</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

## **Error.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
public class Error extends HttpServlet {  
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        response.setContentType("text/html;charset=UTF-8");  
        try (PrintWriter out = response.getWriter()) {  
            out.println("<!DOCTYPE html>");  
            out.println("<html>");  
            out.println("<head>");  
            out.println("<title>Servlet Error</title>");  
            out.println("</head>");  
            out.println("<body>");  
            out.println("<h1> Invalid password" + "</h1>");  
            out.println("<form action='index.html'>");  
            out.println("<input type='submit' value='Go Back'/>");  
            out.println("</form>");  
            out.println("</body>");  
            out.println("</html>");  
        }  
    }  
}
```

### Output:



## Practical No 02.

**b. Problem:-** Create a servlet that uses Cookies to store the number of times a user has visited servlet.

**Source Code:-**

**Index.jsp:**

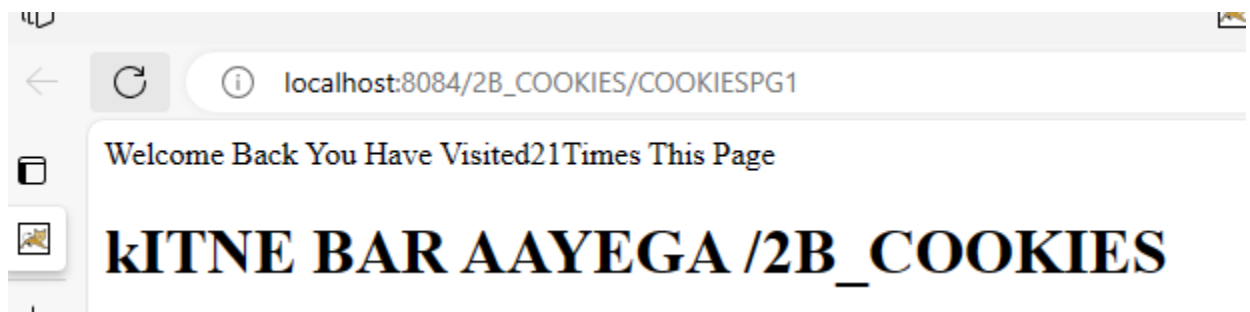
```
<% @page contentType="text/html" pageEncoding="UTF-8"% >
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Refresh" content="0;URL=CookieTest">
</head>
<body>
</body>
</html>
```

**CookieTest.java**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.Cookie;
public class CookieTest extends HttpServlet {
    private int counter;
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet CookieTest</title>");
            out.println("</head>");
            out.println("<body>");
            boolean n_v=true;
            Cookie[] c=request.getCookies();
            if(c!=null)
            {
                for(Cookie tc:c)
                {
                    if(tc.getName().equals("old")&&tc.getValue().equals("1"))
                    {
                        n_v=false;
                    }
                }
            }
            if(n_v)
            {
                counter++;
            }
            out.println(counter);
        }
    }
}
```

```
        break;
    }
}
}
if(n_v)
{
    Cookie fc1=new Cookie("old","1");
    fc1.setMaxAge(360);
    response.addCookie(fc1);
    Cookie cc =new Cookie("cnt","1");
    cc.setMaxAge(360);
    response.addCookie(cc);
    out.println("This is First Time you are visiting this page ");
}
else
{
    out.println("Welcome Back ");
    if(c!=null)
    {
        Cookie tc=null;
        for(Cookie c1:c)
        {
            if(c1.getName().equals("cnt"))
            {
                tc=c1;
                counter=Integer.parseInt(c1.getValue());
                break;
            }
        }
        counter++;
        tc.setValue(Integer.toString(counter));
        tc.setMaxAge(360);
        response.addCookie(tc);
        out.println("you have visited "+counter+"times this page");
    }
}
out.println("</body>");
out.println("</html>");
}
}
```

## OUTPUT:



## Practical No 02.

**C. Problem:-** Create a servlet demonstrating the use of session creation and destruction. Also check whether the user has visited this page first time or has visited earlier also using sessions.

**Source Code:-**

index.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"% >

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Refresh" content="0; URL=SCalculationVisitServlet">
</head>
<body>
</body>
</html>
```

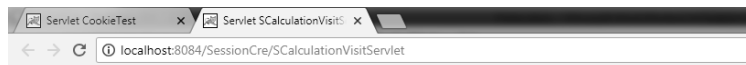
SCalculationVisitServlet.java:

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class SCalculationVisitServlet extends HttpServlet {
    int Counter=0;
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet SCalculationVisitServlet</title>");
            out.println("</head>");
            out.println("<body>");
            synchronized(this) {
                HttpSession mySession = request.getSession(true);
                out.println("<b>SESSION ID:</b> " + mySession.getId());
                out.println("<br><br>You visited this page " + (++Counter));
                out.println((Counter == 1) ? "time " : " times ");
                if ((Counter % 5) == 0)
```

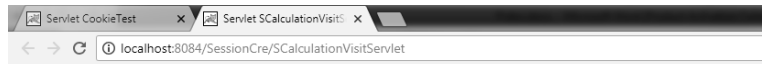
```
        mySession.invalidate();
    }
    out.println("</body>");
    out.println("</html>");
}
}
```

## **OUTPUT:**



**SESSION ID:** B77C832C67730D35E54AA20806171E9D

You visited this page 1 time



**SESSION ID:** FC50C08449D982CE427E65D2AA76DDF6

You visited this page 6 times

## **Practical No 03.**

- a. Problem: Create a Servlet application to upload and download a file.

### **Source Code:-**

index.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"% >
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
<h1>File Upload Application</h1>
<form action="File_Up" enctype="multipart/form-data" method="POST">
    File: <input type="file" name="file" id="file"/><br/><br/>
    Destination: <input type="text" value="" name="destination" /><br/><br/>
<input type="submit" value="Upload File" name="upload" id="upload"/>
</form>
</body>
</html>
```

File\_Up.java:

```
import java.io.*;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.MultipartConfig;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.Part;
@MultipartConfig
public class File_Up extends HttpServlet{
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        final String path = request.getParameter("destination");
        final Part filePart = request.getPart("file");
        final String fileName = retrieveFileName(filePart);
        OutputStream out = null;
        InputStream filecontent = null;
        final PrintWriter writer = response.getWriter();
        try {
            out = new FileOutputStream(new File(path + File.separator + fileName));
            filecontent = filePart.getInputStream();
```



```
int read = 0;
final byte[] bytes = new byte[1024];
while ((read = filecontent.read(bytes)) != -1)
{
    out.write(bytes, 0, read);
}
response.sendRedirect("Succ_Fileupload");
writer.println("<html>");
writer.println("<head>");
writer.println("<title>Servlet File_Up</title>");
writer.println("</head>");
writer.println("<body>");
writer.println("<h1>Servlet File_Up at " + request.getContextPath() + "</h1>");
writer.println("</body>");
writer.println("</html>");
}
catch(Exception e)
{
    writer.println("Error "+e);
}
finally {
    if (out != null)
        out.close();
    if (filecontent != null)
        filecontent.close();
    if (writer != null)
        writer.close();
}
}

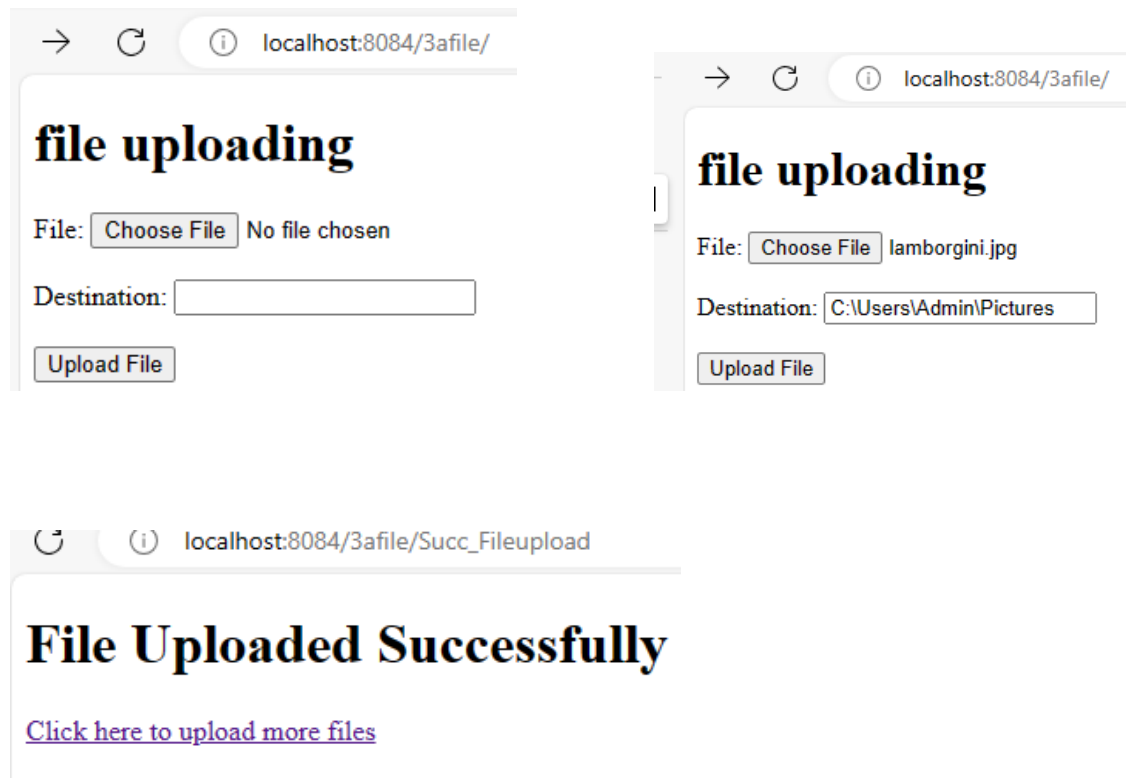
private String retrieveFileName(final Part part) {
    for (String content : part.getHeader("content-disposition").split(";")) {
        if (content.trim().startsWith("filename")) {
            return content.substring(content.indexOf('=') + 1).trim().replace("\"", "");
        }
    }
    return null;
}
}
```

### Succ\_Fileupload.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();
    try {
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Servlet Succ_Fileupload</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>File Uploaded Successfully</h1>");
        out.println("<a href='index.jsp'>Click here to upload more files</a>");
        out.println("</body>");
        out.println("</html>");
    } finally {
        out.close();
    }
}
```

OUTPUT:



## Practical No 03.

**b. Problem:** Develop Simple Servlet Question Answer Application using Database.

**Source Code:-**

index.html:

```
<html>
<head>
<title>Online Exam</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<h1>To Start Exam Click on the Start Button</h1><br>
<form action="Ques_Dis" method="post">
<input type="submit" value="Start"/>
</form>
</body>
</html>
```

Ques\_Dis.java:

```
import java.io.IOException;
import java.io.PrintWriter;

import java.sql.Connection;
import java.sql.DriverManager;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import javax.sql.*;

public class Ques_Dis extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {

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

            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/Exam","root","123");

            Statement smt=con.createStatement();
```

```
ResultSet rs=smt.executeQuery("select ques,op1,op2,op3 from Q_Paper");
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet Ques_Dis</title>");
out.println("</head>");
out.println("<body>");
out.println("<form action='Ans_C' method='post'>");
int i=1;
while(rs.next())
{
    out.println(i+"."+rs.getString(1)+"<br>");
    String v=rs.getString(2);
    out.println("<input type='radio' name='"+q"+i+"' "
value='"+v+"'>"+v+"</input>"+<br>");
    v=rs.getString(3);
    out.println("<input type='radio' name='"+q"+i+"' "
value='"+v+"'>"+v+"</input>"+<br>");
    v=rs.getString(4);
    out.println("<input type='radio' name='"+q"+i+"' "
value='"+v+"'>"+v+"</input>"+<br>");
    i++;
}
    out.println("<input type='submit' value='submit'/>");
out.println("</form>");
out.println("</body>");
out.println("</html>");
}
catch(Exception e)
{
    out.println("Error "+e);
}
}
```

Ans C.java:

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

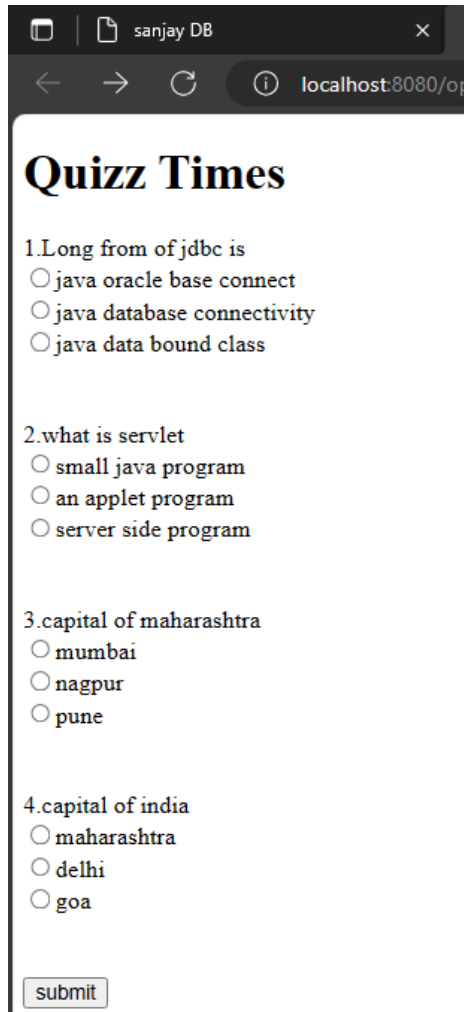
## Enterprise Java

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```
public class Ans_C extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        int corr=0,incorr=0;
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Exam","root","123");
            Statement smt=con.createStatement();
            ResultSet rs1=smt.executeQuery("select ans from Q_Paper");
out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet Ans_C</title>");
            out.println("</head>");
            out.println("<body>");
            int j=1;
            while(rs1.next())
            {
                String s=request.getParameter("q"+j);
if(rs1.getString(1).equals(s))
                {
                    corr++;
                }
                else
                {
                    incorr++;
                }
                j++;
            }

            out.println("<h2>Correct Answers= "+corr+"Incorrect Answers= "+incorr);
            out.println("</body>");
            out.println("</html>");
        }
        catch(Exception e)
        {
            out.println("Error "+e);
        }
    }
}
```

## OUTPUT:



Sanjay DB

localhost:8080/og

### Quizz Times

1.Long from of jdbc is

- ☐ java oracle base connect
- ☐ java database connectivity
- ☐ java data bound class

2.what is servlet

- ☐ small java program
- ☐ an applet program
- ☐ server side program

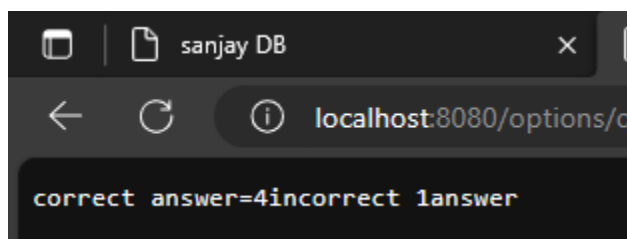
3.capital of maharashtra

- ☐ mumbai
- ☐ nagpur
- ☐ pune

4.capital of india

- ☐ maharashtra
- ☐ delhi
- ☐ goa

submit



localhost:8080/options/c

correct answer=4incorrect 1answer

:

## **Practical No 04.**

- a. **Problem:** Develop a simple JSP application to display values obtained from the use of intrinsic objects of various types.

### **Source Code:-**

#### index.html:

```
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form action="HelloJsp.jsp" method="post">
    How may times:<input type="text" name="no_time"/><br>
<input type="submit" value="submit"/>
</form>
</body>
</html>
```

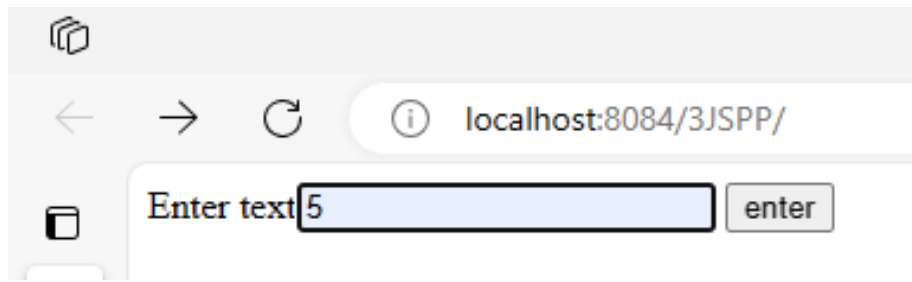
#### HelloJsp.jsp

```
<% @page contentType="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>
<%
    int no=Integer.parseInt(request.getParameter("no_time"));
    for(int i=0;i<no;i++)
    { %>

<h2> hello </h2>
<% }
    %>
</body>
</html>
```

OUTPUT:





## **Practical No 04.**

b. Problem: Develop a simple JSP application to pass values from one page to another with validations.

**Source Code:-**

index.html:

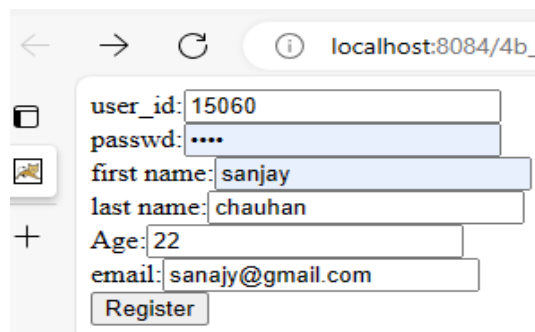
```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Registration Page</title>
</head>
<body>
    Registration Form <br/><br/>
<form action="Data_Val.jsp" method="post">
    userid:<input type="text" name="t1"><br>
    passwd:<input type="password" name="t2"><br>
    first name:<input type="text" name="t3"><br>
    last name:<input type="text" name="t4"><br>
    Age:<input type="text" name="t5"/><br>
    email:<input type="text" name="t6"><br>
<input type="submit" value="Register">
</form>
</body>
</html>
```

Data\_Val.jsp:

```
<% @page language="java" contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%! int ageInt;
    int f;
%>
<%
String id=request.getParameter("t1");
    String p=request.getParameter("t2");
    String fn=request.getParameter("t3");
    String ln=request.getParameter("t4");
    String age=request.getParameter("t5");
    String em=request.getParameter("t6");
    f=1;
    if(fn.isEmpty()||id.isEmpty()||p.isEmpty()||ln.isEmpty()||age.isEmpty()||em.isEmpty())
    {
        out.println("<font color='red'>Please fill all the fields</font><br>");
    }
%>
```

```
f=0;
}
try
{
    ageInt=Integer.parseInt(age.trim());
}
catch( NumberFormatException e)
{
    out.println("<font color='red'> Age must be in numbers</font><br>" );
    f=0;
}
if(ageInt<=18 || ageInt>=60)
{
    out.println("<font color='red'>Age must be between 18 to 60</font><br>");
    f=0;
}
if(f==1)
{
    out.println("Name="+fn+" "+ln);
    out.println("Age= "+ageInt);
    out.println("Email="+em);
}
%>
```

## OUTPUT:



localhost:8084/4b\_

user\_id: 15060

passwd: ....

first name: sanjay

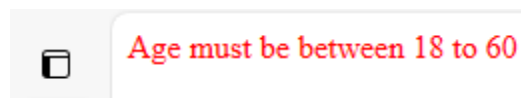
last name: chauhan

Age: 22

email: sanajy@gmail.com

Register

Name=sanjay chauhan  
Age= 22  
Email=sanajy@gmail.com



Age must be between 18 to 60

## Practical No 04.

c. Problem: Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC..

### **Source Code:-**

index.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page language="java" %>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Login/Registration</title>
</head>
<body>
<p align="right"><% @include file="RegLink.html" %></p>
<form action="Login.jsp" method="post">
    user_id=<input type="text" name="t1" /><br/>
    Password=<input type="password" name="t2" /><br/>
<input type="submit" value="Login" />
</form>
</body>
</html>
```

Login.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page language="java" import="java.sql.*,javax.sql.*"%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Login Page</title>
</head>
<body>
<%
    String userid=request.getParameter("t1");
    String passwd=request.getParameter("t2");
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Reg","root","123");
        PreparedStatement ps=con.prepareStatement("select * from user where userid=? and
passwd=?");
        ps.setString(1,userid);
        ps.setString(2,passwd);
```

```
        ResultSet rs=ps.executeQuery();
        if(rs.next())
        {
            response.sendRedirect("Welcome.html");
        }
        else
        {
            out.println("Could not login please check your data");
        }
    %>
<br><a href="index.jsp">Go back </a>
<% }
    }
    catch(Exception e)
    {
        out.println("Error"+e);
    }
    %>
</body>
</html>
Welcome.html:
<html>
<body>
    Login Successful !!!!!!!!!!!
</body>
</html>
RegLink.html:
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
    Click <a href="RegForm.jsp"> here for Registration</a>
</body>
</html>
RegForm.jsp:
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>REgistration Page</title>
</head>
<body>
    Registration Form <br/><br/>
```

```
<form action="Registration.jsp" method="post">
    userid:<input type="text" name="t1"><br>
    passwd:<input type="password" name="t2"><br>
    first name:<input type="text" name="t3"><br>
    last name:<input type="text" name="t4"><br>
    email:<input type="text" name="t5"><br>
<input type="submit" value="Register">
</form>
</body>
</html>
Registration.jsp:
<% @page contentType="text/html" pageEncoding="UTF-8"% >
<% @page language="java" import="java.sql.*,javax.sql.*"% >
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title></title>
</head>
<body>
<%
    String id=request.getParameter("t1");
    String p=request.getParameter("t2");
    String fn=request.getParameter("t3");
    String ln=request.getParameter("t4");
    String em=request.getParameter("t5");
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Reg","root","123");
        PreparedStatement ps=con.prepareStatement("insert into user values(?,?,?,?,?)");
        ps.setString(1,id);
        ps.setString(2,p);
        ps.setString(3,fn);
        ps.setString(4,ln);
        ps.setString(5,em);
        ps.executeUpdate();
        out.println("<html>");
        out.println("<body>");
        out.println("Registration is successful !!!");
        out.println("</body>");
        out.println("</html>");
    }
    catch(Exception e)
    {
```

# Enterprise Java

---

```
        out.println("<html>");
        out.println("<body>");
        out.println("Your Registration is unsuccessful:"+e);
        out.println("</body>");
        out.println("</html>");
    }
    %>
</body>
</html>
```

OUTPUT:

---

## Registration Form

userid:

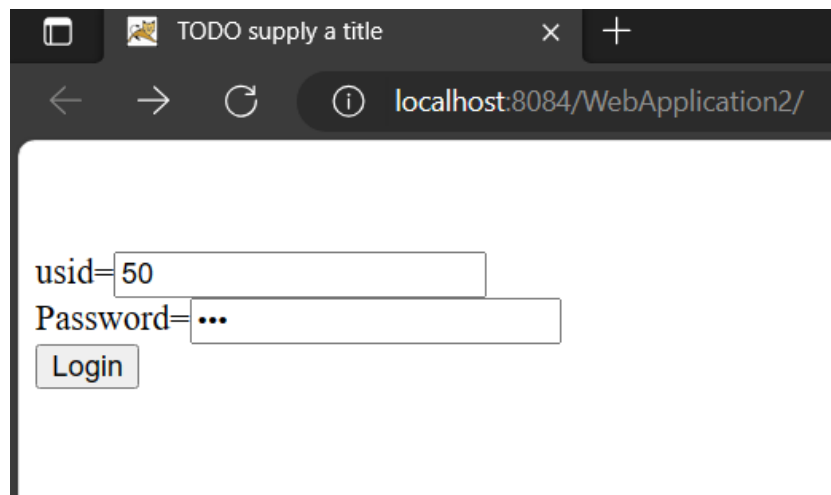
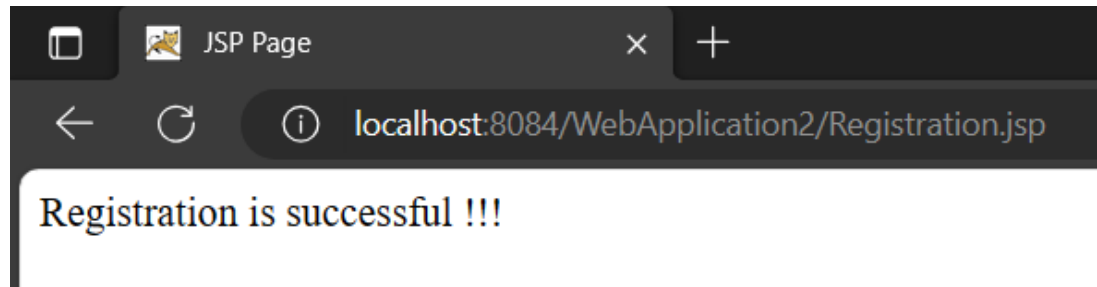
passwd:

fname:

lname:

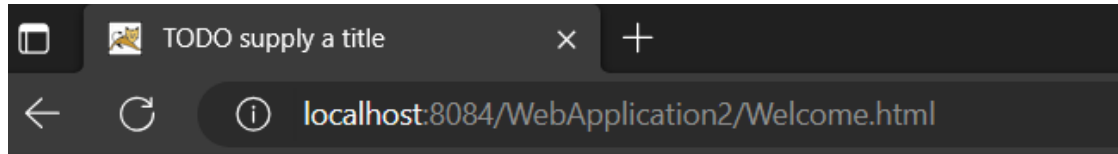
email:

---



## Enterprise Java

---



Welcome "SANJAY"

```
mysql> select * from user;
+-----+-----+-----+-----+-----+
| id    | p     | fn     | ln    | em     |
+-----+-----+-----+-----+-----+
| 4     | 7890  | Mittal | Shah  | mito   |
| 50    | 123   | sanju  | chau   | sc2171 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> |
```

## **Practical No 05.**

- a. **Problem:** Create an html page with fields, userid, Password, First name, LastName etc. Now on submit this data to a JSP page which will update the user table of database with matching userid.

### **Source Code:-**

#### index.html:

```
<html>
<head>
<title></title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<h2> Login For Data Editing Details </h2>
<form action="Login.jsp" method="post">
    user_id=<input type="text" name="t1" /><br/>
    Password=<input type="password" name="t2" /><br/>
<input type="submit" value="Login" />
</form>
</body>
</html>
```

#### Login.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page language="java" import="java.sql.*,javax.sql.*"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Login Page</title>
</head>
<body>
<%
    String userid=request.getParameter("t1");
    String passwd=request.getParameter("t2");
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Reg","root","123");
        PreparedStatement ps=con.prepareStatement("select * from user where userid=? and
passwd=?");
        ps.setString(1,userid);
        ps.setString(2,passwd);
        ResultSet rs=ps.executeQuery();
```



```
        if(rs.next())
        {
            RequestDispatcher rd=request.getRequestDispatcher("EditRegister.jsp");
            rd.forward(request, response);
            //response.sendRedirect("EditRegister.jsp");
        }
        else
        {
            out.println("Error in login pls go back to Login again"+"<br>");
            %>
<a href="index.html">Go back </a>

<% }
    }
    catch(Exception e)
    {
        out.println("Error"+ e);
    }
    %>
</body>
</html>
EditRegister.jsp:
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page language="java" import="java.sql.*,javax.sql.*"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Edit Registration Page</title>
</head>
<body>
<%
    String userid=request.getParameter("t1");
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Reg","root","123");
        PreparedStatement ps=con.prepareStatement("select * from user where userid=?");
        ps.setString(1,userid);
        ResultSet rs=ps.executeQuery();
        if(rs.next())
        { %>
<h2> EDIT REGISTRATION DETAILS </h2>
<form action="Update.jsp" method="post">
    User_ID = <input type="text" name="te1" value="<%=rs.getString(1)%>" /><br>
```

## Enterprise Java

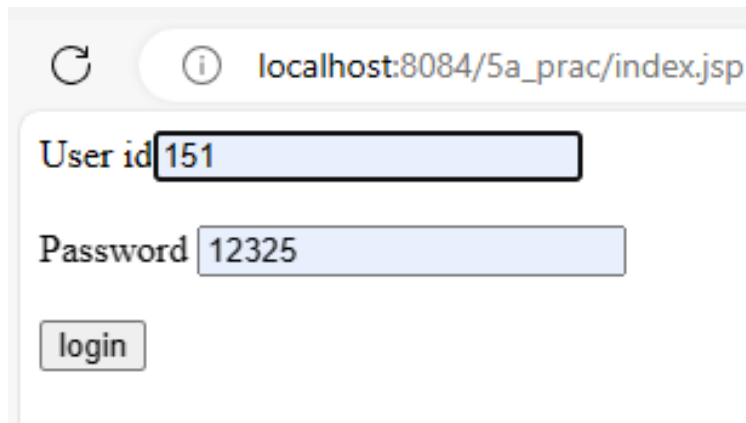
---

```
        Password=<input type="text" name="te2" value="<%=rs.getString(2)%>" /><br>
        First Name=<input type="text" name="te3" value="<%=rs.getString(3)%>" /><br>
        Last Name= <input type="text" name="te4" value="<%=rs.getString(4)%>" /><br>
        Email=<input type="text" name="te5" value="<%=rs.getString(5)%>" /><br>
<input type="submit" value="Update"/>
</form>
<% }
    }
    catch(Exception e)
    {
        out.println("Error"+ e);
    }
    %>
</body>
</html>
```

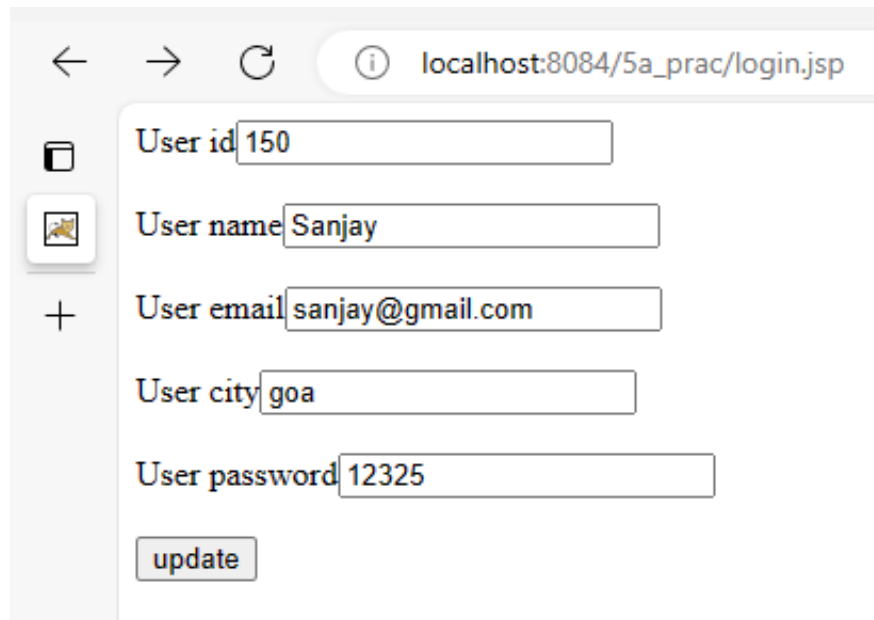
### Update.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page language="java" import="java.sql.*,javax.sql.*"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Updation Done</title>
</head>
<body>
</body>
</html>
```

### OUTPUT:



The screenshot shows a web browser window with the address bar displaying 'localhost:8084/5a\_prac/index.jsp'. The page content includes a login form with two text input fields. The first field is labeled 'User id' and contains the value '151'. The second field is labeled 'Password' and contains the value '12325'. Below these fields is a button labeled 'login'.



← → ↻ ⓘ localhost:8084/5a\_prac/login.jsp

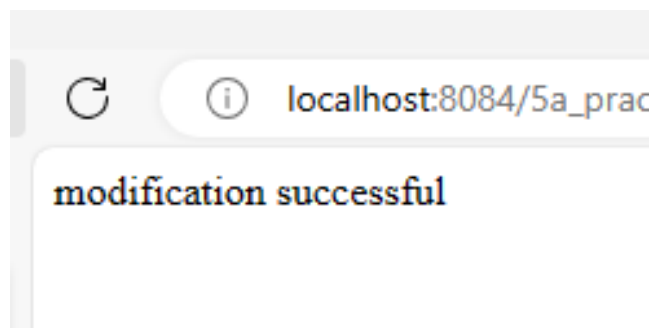
User id

User name

User email

User city

User password



↻ ⓘ localhost:8084/5a\_prac

**modification successful**

## **Practical No 05.**

**b. Problem:** Create a JSP page to demonstrate the use of Expression language.

**c. Source Code:-**

index.jsp:

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<%
    application.setAttribute("user", "Sonali Saraf");
    session.setAttribute("country", "India");
%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>JSP Expression language Example</title>
</head>
<body>
<form action="Display.jsp" method="post">
    User First Name=<input type="text" name="fname"/><br>
    User Last Name= <input type="text" name="lname"/><br>
<input type="submit" value="Check EL Example"/><br>
</form>
</body>
</html>
```

Display.jsp:

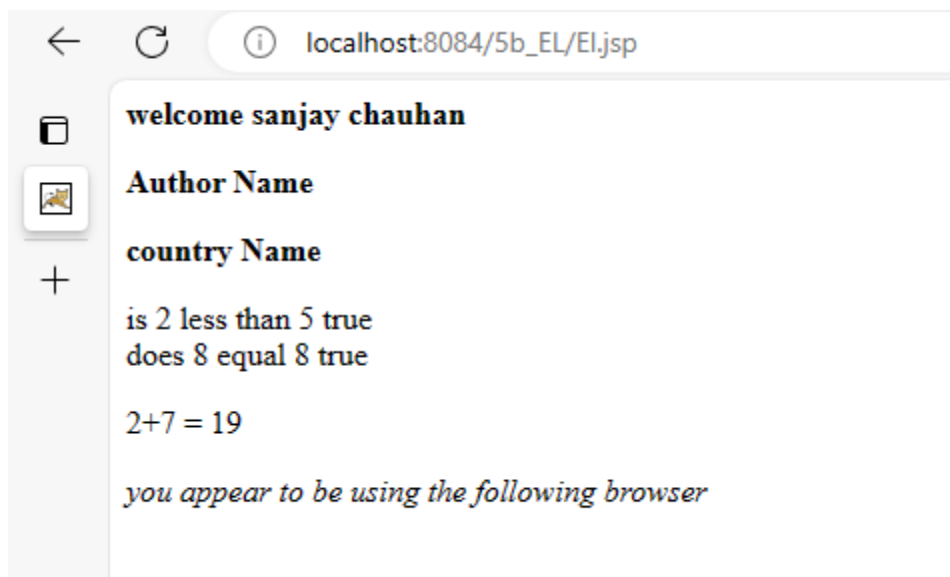
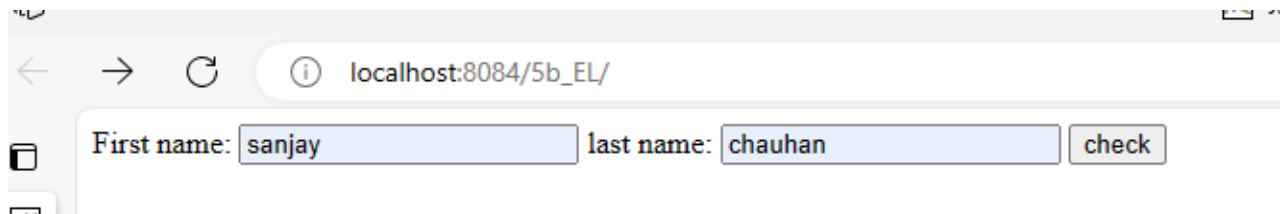
```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<%
    pageContext.setAttribute("colour", "pink");
%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>JSP Display Page</title>
</head>
<body bgcolor="${pageScope.colour}">
<b> WelCome ${param.fname} ${param.lname} </b><br>
    Below are accessing Application object:
<p>
    Author Name:<b> ${applicationScope.user} </b>
</p>
    Below are session object:
<p>
```

# Enterprise Java

---

```
Country is:<b> ${sessionScope.country}</b>
</p>
Below are some basic comparisons Using EL:
<p>
    Is 2 less than 5?${2<5}<br>
    Does 8 equals 8?${8==8}<br>
    Is 10 greater than 4?${6 gt 4}<br>
</p>
Now some Arithmetic Expression
<p>
    12 + 7 = ${12+7} <br>
</p>
<em> you appear to be using the following browser:
    ${header["user-agent"]}
</body>
</html>
```

## OUTPUT:



## **Practical No 06.**

a. **Problem:** Create a Currency Converter application using EJB.

**Source Code:-**

**index.html:**

```
<html>
<head>
<title>Currency Convertor</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form action="C_Client" method="post">
    Amount to be converted:<input type="text" name="amt"/><br>
    From :<select name="from">
<option value="dollar" >Dollar</option>
<option value="rs"> Rupees </option>
</select><br>
    To:<select name="to">
<option value="dollar">Dollar </option>
<option value="rs"> Rupees</option>
</select><br>
<input type="submit" value="Convert"/>
</form>
</body>
</html>
```

**c\_converter.java:-**

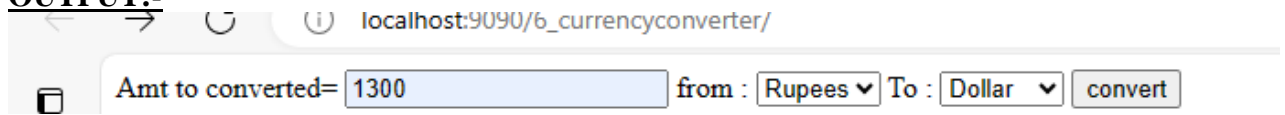
```
package currency;
import javax.ejb.Stateless;
@Stateless
public class c_converter
{
public double convert(String Fr,String Tc,String a)
{
    double d=Double.parseDouble(a);
    if(Fr.equals(Tc))
    {
        return d;
    }
    if(Tc.equals("rs"))
    {
        return d*73.124;
    }
    if(Tc.equals("dollar"))
```

```
        {
            return d*0.01369;
        }
        return 0;
    }
}
```

### **C\_Client.java:-**

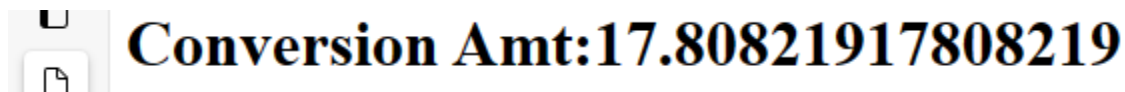
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.ejb.*;
import currency.c_convertor;
public class C_Client extends HttpServlet {
    @EJB
    c_convertor cb;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            String a=request.getParameter("amt");
            String f=request.getParameter("from");
            String t=request.getParameter("to");
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet C_Client</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>After conversion Amount is: " + cb.convert(f, t, a) + "</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

### **OUTPUT:-**



localhost:9090/6\_currencyconverter/

Amt to converted= 1300 from : Rupees To : Dollar convert



**Conversion Amt:17.80821917808219**

## Practical No 06.

### **b. Problem:Develop a Simple Room Reservation System Application Using EJB.**

#### **Source Code:-**

##### **index.html:**

```
<html>
<head>
<title>Room Reservation data form </title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<h1>Welcome to Reservation Page.....!!!!!!!!!!!!!!</h1>
<form action="Reservation_c" method="post">
    First Name:<input type="text" name="fname"/><br/>
    Last Name:<input type="text" name="lname"/><br/>
    Start Date:<input type="date" name="sdate"/><br/>
    End Date:<input type="date" name="edate"/><br/>
<input type="Submit" value="Submit"/><br/>
</form>
</body>
</html>
```

##### **RoomRes.java:-**

```
package Reservation;
import javax.ejb.Stateless;
import java.sql.*;
import javax.sql.*;

@Stateless
public class RoomRes
{
    public boolean canRes(String fname, String lname, String sdate, String edate)
    {
        try {
            boolean flag = true;
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = (Connection)
            DriverManager.getConnection("jdbc:mysql://localhost:3306/Resv", "root", "123");
            PreparedStatement ps;
            ps = con.prepareStatement("select * from room where sdate=?");
            ps.setDate(1, Date.valueOf(sdate));
            ResultSet rs = ps.executeQuery();
            if (rs.next()) {
                flag = false;
            }
        }
    }
}
```



```
        return flag;
    } else {
        PreparedStatement ps1 = con.prepareStatement("insert into room values(?,?,?,?)");
        ps1.setString(1, fname);
        ps1.setString(2, lname);
        ps1.setDate(3, Date.valueOf(sdate));
        ps1.setDate(4, Date.valueOf(edate));
        ps1.executeUpdate();
        flag = true;
        return flag;
    }
} catch (Exception e) {
    return false;
}
}
```

### **Reservation\_c.java:-**

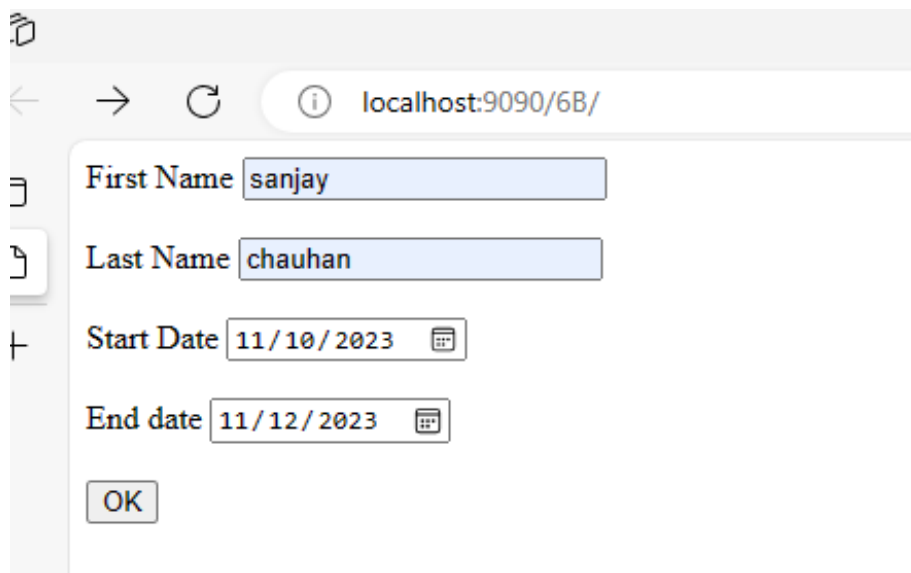
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.ejb.EJB;
import Reservation.RoomRes;
public class Reservation_c extends HttpServlet
{
    @EJB
    RoomRes rr;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            String fname = request.getParameter("fname");
            String lname = request.getParameter("lname");
            String sdate = request.getParameter("sdate");
            String edate = request.getParameter("edate");
            rr = new RoomRes();
            boolean ans = rr.canRes(fname, lname, sdate, edate);
            if (ans == true)
            {
                out.println("WelCome " + fname + " " + lname + "<br>");
            }
        }
    }
}
```

## Enterprise Java

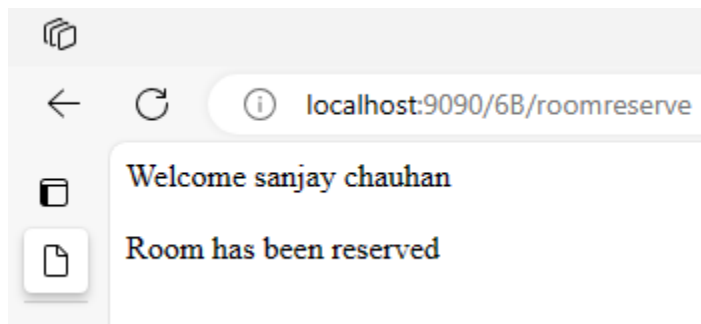
---

```
        out.println("Room has been reserved");
    }
    else
    {
        out.println(" Sorry !! Room can not be reserve");
    }
}
catch(Exception e)
{
    out.println("Error "+ e);
}
}
```

### **OUTPUT:-**



A screenshot of a web browser window displaying a room reservation form. The address bar shows 'localhost:9090/6B/'. The form contains four input fields: 'First Name' with the value 'sanjay', 'Last Name' with the value 'chauhan', 'Start Date' with the value '11/10/2023', and 'End date' with the value '11/12/2023'. Each date field has a calendar icon to its right. Below the input fields is an 'OK' button.



## **Practical No 07.**

**a. Problem:**Develop simple EJB application to demonstrate Servlet Hit count using SingletonSession Beans.

**Source Code:-**

**index.html:**

```
<html>
<head>
<title>Visitor's Count</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form action="Serv_HitCount" method="post">
<input type="submit" value="Click Here to Check Server hit count "/>
</form>

</body>
</html>
```

**HitCount.java:**

```
package visitorhitcount;
import javax.ejb.Singleton;
@Singleton
public class HitCount {
private int count=1;
public synchronized int incrCount()
{
return count++;
}
}
```

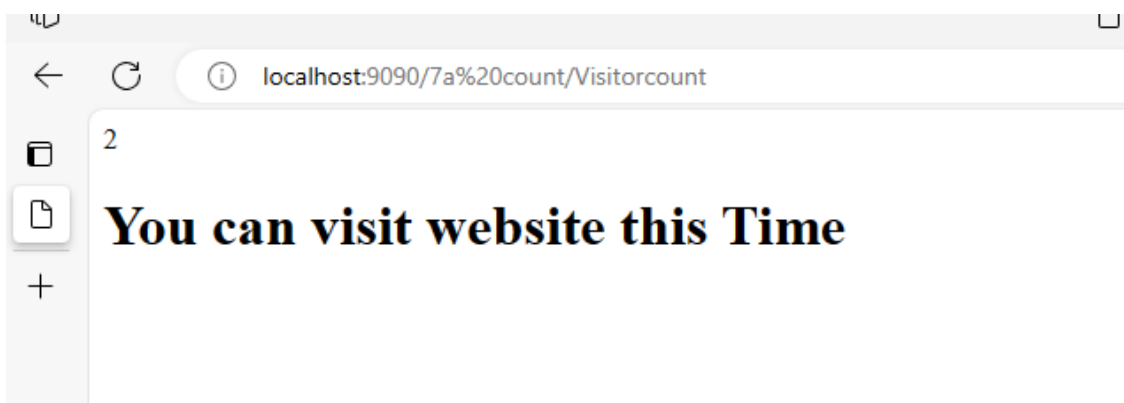
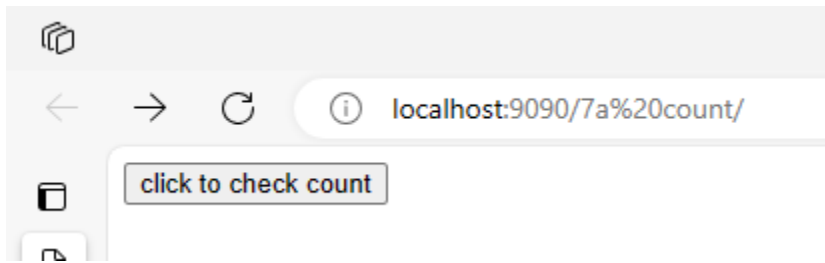
**Serv HitCount.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.ejb.*;
import visitorhitcount.HitCount;
public class Serv_HitCount extends HttpServlet {
```

@EJB

```
HitCount vc;  
protected void doPost(HttpServletRequest request, HttpServletResponse response)  
    throws ServletException, IOException {  
    response.setContentType("text/html;charset=UTF-8");  
    try (PrintWriter out = response.getWriter()) {  
        out.println("<!DOCTYPE html>");  
        out.println("<html>");  
        out.println("<head>");  
        out.println("<title>Servlet Serv_HitCount</title>");  
        out.println("</head>");  
        out.println("<body>");  
        out.println("<h1>You have visited this page " + vc.incrCount()+ " times "+ "</h1>");  
        out.println("</body>");  
        out.println("</html>");  
    }  
    }  
}
```

### **OUTPUT:**



## Practical No 07.

**b. Problem:** Develop simple Marks Entry Application to demonstrate accessing Database using EJB.

**Source Code:-**

**index.html:**

```
<html>
<head>
<title>Marks Entry Form</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<form action="M_Insert" method="post">
    Roll No:<input type="text" name="t1"/><br>
    Name :<input type="text" name="t2"/><br>
    Marks of Sub1:<input type="text" name="t3"/><br>
    Marks of Sub2:<input type="text" name="t4"/><br>
    Marks of Sub3:<input type="text" name="t5"/><br>
<input type="submit" value="Submit"/>
</form>
</body>
</html>
```

**StudMarksEntery.java:**

```
package marks;

import javax.ejb.Stateful;
import javax.sql.*;
import java.sql.*;
@Stateful
public class StudMarksEntery
{
    public boolean insertMarks(int r_no,String name,int m1,int m2,int m3)
    {

        boolean f=true;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            Connection
            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/Marks","root","123");
            PreparedStatement ps=con.prepareStatement("insert into stud values(?,?,?,?)");
            ps.setInt(1,r_no);
```

```
        ps.setString(2,name);
        ps.setInt(3,m1);
        ps.setInt(4,m2);
        ps.setInt(5,m3);
        ps.executeUpdate();
        f=true;
        return f;
    }
    catch(Exception e)
    {

        f=false;
        return f;
    }
}
```

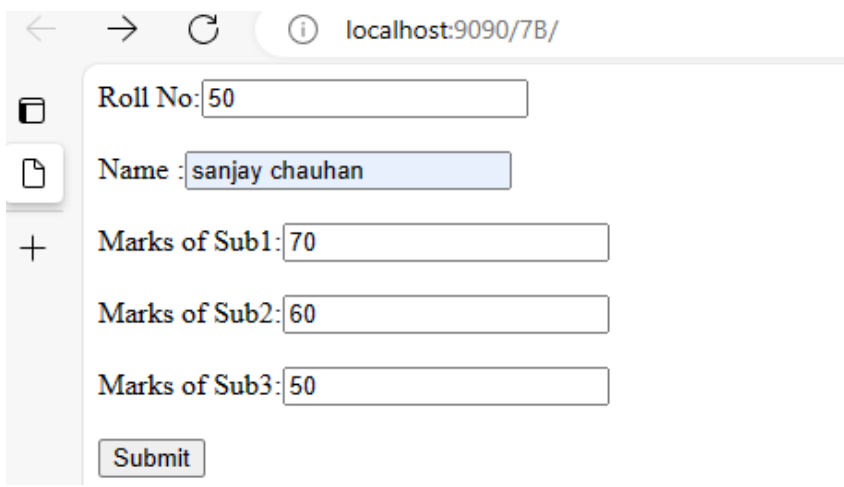
### **M\_Insert.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.ejb.*;
import marks.StudMarksEntry;
public class M_Insert extends HttpServlet {
    @EJB
    StudMarksEntry s1;
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException
    {
        String name=request.getParameter("t2");

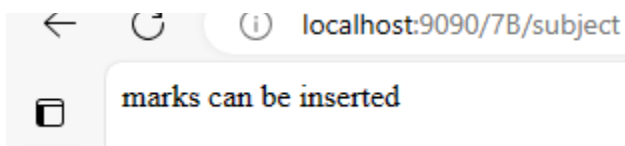
        response.setContentType("text/html;charset=UTF-8");
        boolean flag;
        int no=Integer.parseInt(request.getParameter("t1"));
        int m1=Integer.parseInt(request.getParameter("t3"));
        int m2=Integer.parseInt(request.getParameter("t4"));
        int m3=Integer.parseInt(request.getParameter("t5"));
        try (PrintWriter out = response.getWriter()) {
            flag=s1.insertMarks(no, name, m1, m2, m3);
            if(flag)
            {
                out.println("marks inserted");
            }
        }
    }
}
```

```
    else
    {
        out.println("failed to enter");
    }
}
}
```

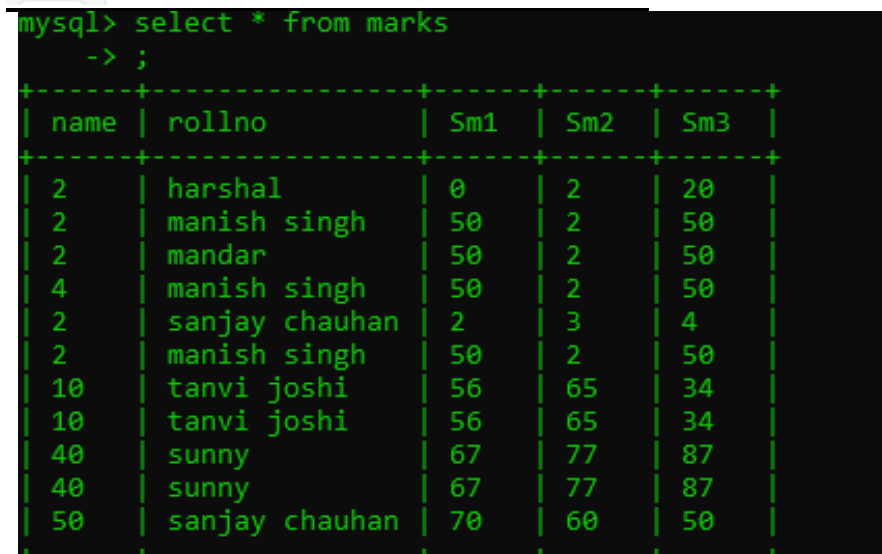
### OUTPUT:



A screenshot of a web browser window at localhost:9090/7B/. The page contains a form with the following fields: "Roll No:" with value 50, "Name:" with value sanjay chauhan, "Marks of Sub1:" with value 70, "Marks of Sub2:" with value 60, and "Marks of Sub3:" with value 50. A "Submit" button is at the bottom.



A screenshot of a web browser window at localhost:9090/7B/subject. The page displays the message "marks can be inserted".



A screenshot of a MySQL command prompt showing the query `mysql> select * from marks -> ;` and its result. The result is a table with 5 columns: name, rollno, Sm1, Sm2, and Sm3. The data is as follows:

	name	rollno	Sm1	Sm2	Sm3
2	harshal		0	2	20
2	manish singh		50	2	50
2	mandar		50	2	50
4	manish singh		50	2	50
2	sanjay chauhan		2	3	4
2	manish singh		50	2	50
10	tanvi joshi		56	65	34
10	tanvi joshi		56	65	34
40	sunny		67	77	87
40	sunny		67	77	87
50	sanjay chauhan		70	60	50

## Practical No 08.

- a. **Develop a Hibernate application to store Feedback of Website Visitor in MySQL Database.**

**Source Code:-**

**index.html:**

```
<html>
<head>
<title>FeedBack Details</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<h4>Provide visitors Details</h4>
<form action="Check.jsp" method="post">
    Visitor name:<input type="text" name="t1"/><br>
    email:<input type="text" name="t2"/><br>
    feedback:<textarea rows="2" cols="30" name="t3"></textarea><br>
<input type="submit" value="Submit"/>
</form>
</body>
</html>
```

**Visitor.java:**

```
package myApp;
import javax.persistence.*;
@Entity
@Table(name="Visitor")
public class Visitor {
    @Id
    @GeneratedValue
    @Column(name="v_no")
    Integer vno;
    @Column(name="v_name")
    String vname;
    @Column(name="email")
    String email;
    @Column(name="feedback")
    String feedback;
    @Column(name="date")
    String fdate;
    public Visitor(){ }
    public Visitor(String vname,String email,String feedback)
    {
```



```
        this.vname=vname;
        this.email=email;
        this.feedback=feedback;
    }

    public Integer getVno() {
        return vno;
    }

    public void setVno(Integer vno) {
        this.vno = vno;
    }

    public String getVname() {
        return vname;
    }

    public void setVname(String vname) {
        this.vname = vname;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getFeedback() {
        return feedback;
    }

    public void setFeedback(String feedback) {
        this.feedback = feedback;
    }

    public String getFdate() {
        return fdate;
    }

    public void setFdate(String fdate) {
        this.fdate = fdate;
    }
}
```

### **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>
<property 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:3306/FeedBack?zeroDateTimeBehav
ior=convertToNull</property>
<property name="hibernate.connection.username">root</property>
<property name="hibernate.connection.password">123</property>
<mapping class="myApp.Visitor"/>
</session-factory>
</hibernate-configuration>
```

### **Check.jsp:**

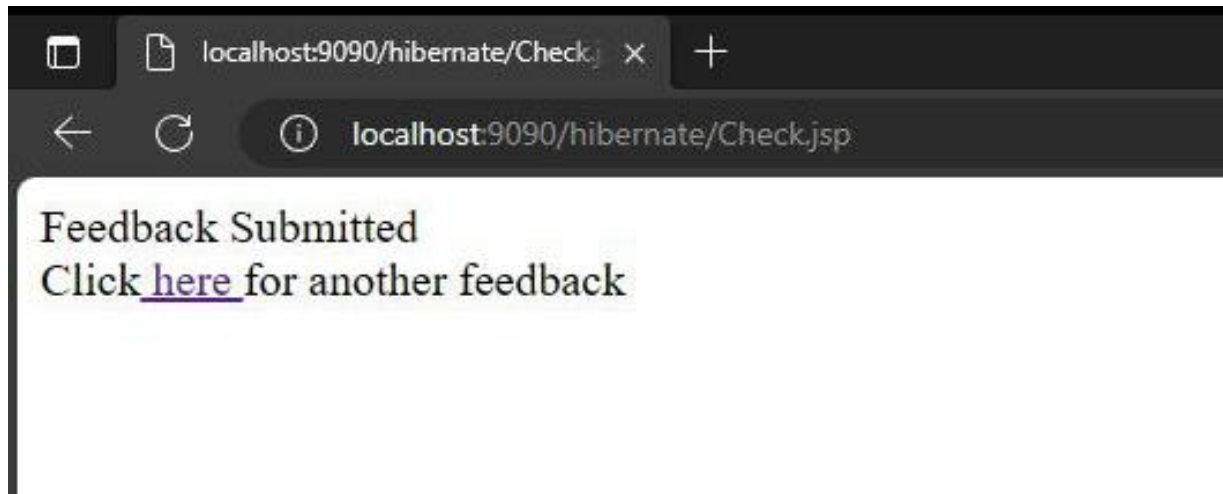
```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page
import="java.util.Iterator,org.hibernate.Transaction,org.hibernate.service.ServiceRegistryBuild
er,org.hibernate.cfg.Configuration,org.hibernate.service.ServiceRegistry,java.util.List,myApp.
Visitor,org.hibernate.SessionFactory" %>
<!DOCTYPE html>
<%!
    SessionFactory sF;
    ServiceRegistry sR;
    org.hibernate.Session hbSession;
    List<Visitor> flist;
%>
<%
    Configuration configuration = new Configuration();
    configuration.configure();
    sR = new
ServiceRegistryBuilder().applySettings(configuration.getProperties()).buildServiceRegistry();
    sF = configuration.buildSessionFactory(sR);
    hbSession = sF.openSession();
    Transaction transaction = null;
    Visitor v=new Visitor();
    try {
        transaction = hbSession.beginTransaction();
        String vname=request.getParameter("t1");
        String email =request.getParameter("t2");
        String feedback=request.getParameter("t3");
        String fdate=new java.util.Date().toString();
```

```
v.setVname(vname);
v.setEmail(email);
v.setFeedback(feedback);
v.setFdate(fdate);
hbSession.save(v);
transaction.commit();
out.println("Feedback Submitted"+"<br>");
out.println("Click"+"<a href='index.html'> here </a> "+"for another feed back");
}
catch (RuntimeException e) {
    if(transaction != null) transaction.rollback();
    throw e;
}
%>
```

### **OUTPUT:**



The screenshot shows a web browser window with the title 'FEEDBACK'. The address bar displays 'localhost:9090/hibernate/'. The page content includes a large heading 'feedback'. Below the heading, there are two input fields: 'Enter Your Name : SANJAY' and 'Enter Your Email : SANJAY@GAMIL.COM'. A larger text area for feedback contains the word 'HIBERNATE'. At the bottom left, there is a label 'Enter Your Feedback :' and a 'submit' button.



```
mysql> select * from user ;
+-----+-----+-----+
| Name      | email                      | feedback                                     |
+-----+-----+-----+
| natu edrfe | nocy40389@letpays.com      | itit                                         |
| tanvi      | tanvi@yahoo.com            | hello                                       |
| mandar     | hello@yahoo.com            | hello                                       |
| sunny      | sandy@yahoo.com            | hey this is Hibernate Practical.           |
| shakib kum | shakib@gmail.com           | nkt is worst college.                      |
| Rutuja Kadam | rutu@gmail.com             | Hii This is Hibernate Practical            |
| natu edrfe | nocy40389@letpays.com      | ferf                                        |
| RAHUL YADAV | RAHUL@GAMIL.COM            | GOOD FORM                                   |
| SANJAY      | SANJAY@GAMIL.COM           | HIBERNATE                                   |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>
```