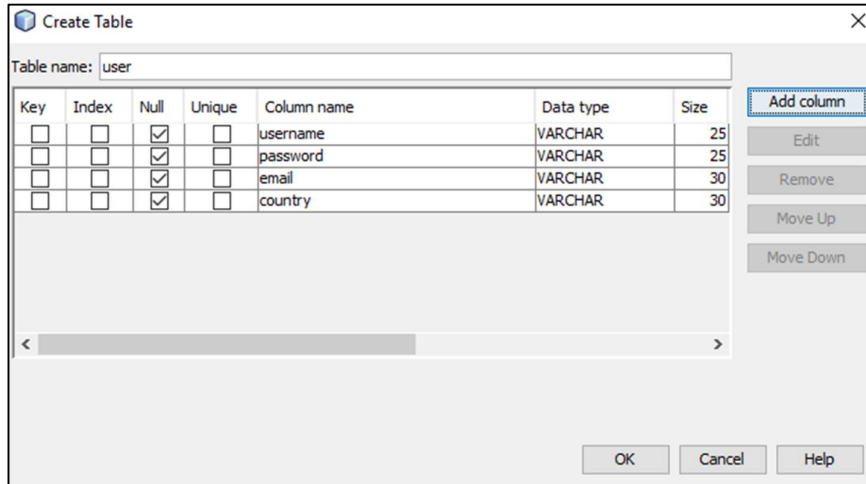**Practical No. 6(a)**

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

Create a database **logindb** and create a table **user**.

Add **mysql-connector-java-5.1.23-bin.jar** file to Library folder of your web application.

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>
    <a href="login.html"> <h1>Click here Login</h1></a>
    <a href="register.html"><h1>New User Registration</h1></a>
  </body>
</html>
```

login.html

```
<html>
  <head>
    <title>Login Page</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <h1>Login Page</h1>
```

```html
      <form action="Login.jsp">
        Enter User Name: <input type="text" name="txtName"><br>
        Enter Password: <input type="password" name="txtPass"><br><br>
        <input type ="submit" value="~~Login~~">  <input type="reset">
      </form>
    </body>
</html>
```

register.html

```html
<html>
   <head>
      <title>User Register Page</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
   </head>
   <body>
      <form action="Registration.jsp">
         <h1>New User Registration Page</h1>
         Enter Username: <input type="text" name="txtName"><br>
         Enter Password: <input type="password" name="txtPass1"><br>
         Re-enter Password: <input type="password" name="txtPass2"><br>
         Enter Email: <input type="email" text="txtEmail"><br>
         Enter Country Name:
         <select name="txtCon">
            <option>India</option>
            <option>Pakistan</option>
            <option> Somalia</option>
            <option> USA</option>
         </select>
         <br><br><input type="submit" value="Register">   <input type="reset">
      </form>
   </body>
</html>
```

Registration.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.*"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>Registration Page</title>
   </head>
   <body>
      <h1>Registration JSP</h1>
      <%
```

```jsp
        String uname =request.getParameter("txtName");
        String pass1 =request.getParameter("txtPass1");
        String pass2 =request.getParameter("txtPass2");
        String email =request.getParameter("txtEmail");
        String ctry =request.getParameter("txtCon");
        if(pass1.equals(pass2))
        {
           try
           {
              Class.forName("com.mysql.jdbc.Driver");
              Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/logindb","root","");
              PreparedStatement stmt = con.prepareStatement("insert into user values(?,?,?,?)");
              stmt.setString(1,uname);
              stmt.setString(2, pass1);
              stmt.setString(3,email);
              stmt.setString(4,ctry);
              int row = stmt.executeUpdate();
              if(row==1)
              {
                 out.println("Registration Sucessful");
              }
              else
              {
                 out.println("Registration Failed");
                 %>
                 <jsp:include page="index.html"></jsp:include>
                 <%
              }
           }
           catch(Exception e)
           {
              out.println(e);
           }
        }
        else
        {
           out.println("<h1> Password Mismatch</h1>");
           %>
           <jsp:include page="registration.html"></jsp:include>
           <%
        }
     %>

   </body>
</html>
```

Login.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.*"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Login JSP</title>
    </head>
    <body>
        <h1>Login JSP</h1>
        <%
            String uname=request.getParameter("txtName");
            String pass=request.getParameter("txtPass");
            ResultSet rs= null;
            try
            {
                Class.forName("com.mysql.jdbc.Driver");
                Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/logindb","root","");
                Statement stmt = con.createStatement();
                rs = stmt.executeQuery("select password from where username='"+uname+"'");
                rs.next();
                if(pass.equals(rs.getString(1)))
                {
                    out.println("<h1> ~~Login Successfull~~</h1>");
                }
                else
                {
                    out.println("<h1>Password does not match!!</h1>");
                    %>
                    <jsp:include page="login.html"></jsp:include>
                    <%
                }

            }
            catch(Exception e)
            {
                out.println("<h1>User does not Exist</h1>");
                %>
                <jsp:include page="index.html"></jsp:include>
                <%
            }
        %>
    </body>
</html>
```
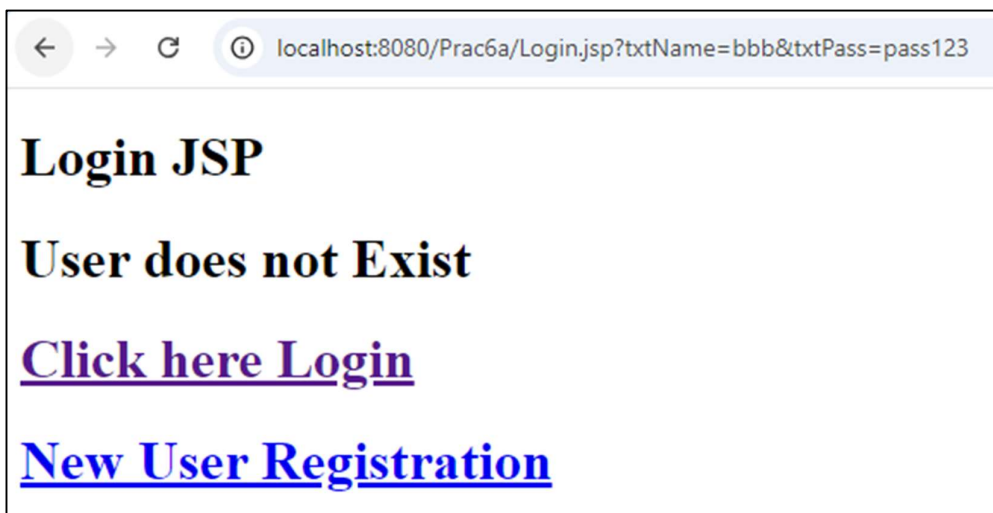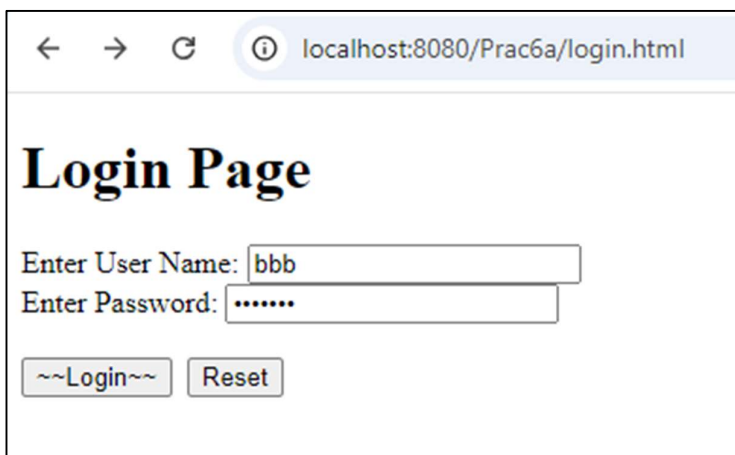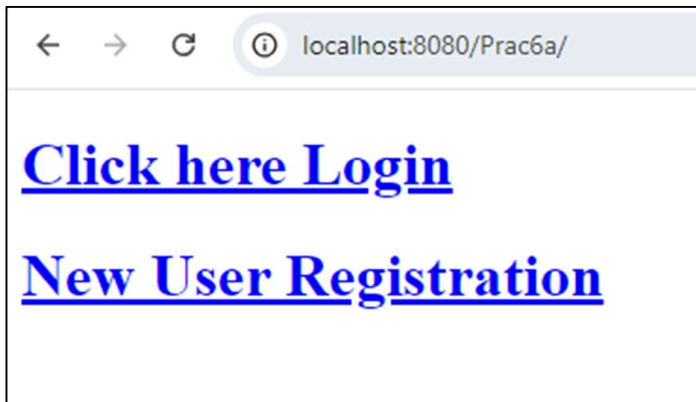
Output:

← → C ⓘ localhost:8080/Prac6a/

Click here Login

New User Registration

← → C ⓘ localhost:8080/Prac6a/login.html

Login Page

Enter User Name: bbb
Enter Password: •••••••

[~~Login~~] [Reset]

← → C ⓘ localhost:8080/Prac6a/Login.jsp?txtName=bbb&txtPass=pass123

Login JSP

User does not Exist

Click here Login

New User Registration

New User Registration Page

Enter Username: aaa
Enter Password: ••••••
Re-enter Password: ••••••
Enter Email: aaa@gmail.com
Enter Country Name: India ▾

[Register] [Reset]

Registration JSP

Registration Sucessful

#	username	password	email	country
1	aaa	qwerty	aaa@gmail.com	India

Login Page

Enter User Name: aaa
Enter Password: ••••••

[~~Login~~] [Reset]

Login JSP

~~Login Successfull~~

Login Page

Enter User Name: aaa

Enter Password: ••••••

~~Login~~   Reset

---

localhost:8080/Prac6a/Login.jsp?txtName=aaa&txtPass=123456

Login JSP

Password does not match!!

Login Page

Enter User Name: [   ]
Enter Password: [   ]

~~Login~~   Reset

Practical No. 6(b)

Q. Create an html page with fields empid, ename, age, salary. Now submit this data to a JSP page which will update the employee table of the database with matching eid.

Create a database **logindb** and create a table **emp**.

Inserting Emp data into **emp** table.

#	empid	ename	age	salary
1	1	Ritesh	28	30000
2	2	Om	30	40000

index.html

```
<html>
  <head>
    <title>Employee</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="UpdateEmp.jsp">
      Enter Employee ID : <input type="text" name="txtEid" ><br>
      Enter Name : <input type="text" name="txtEname" ><br>
      Enter Age : <input type="text" name="txtAge" ><br>
      Enter Salary : <input type="text" name="txtSal"><br>
      <input type="reset" ><input type="submit">
    </form>
  </body>
```

</html>

UpdateEmp.jsp

```jsp
<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.*"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Update Employee</title>
    </head>
    <body>
    <h1>Employee Record Update</h1>
    <%
        String eid = request.getParameter("txtEid");
        String name = request.getParameter("txtEname");
        String age = request.getParameter("txtAge");
        String sal = request.getParameter("txtSal");
        try {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con =
        DriverManager.getConnection("jdbc:mysql://localhost:3306/logindb","root","");
        PreparedStatement pstmt = con.prepareStatement("select *from emp where empid=?");
        pstmt.setString(1,eid);
        ResultSet rs = pstmt.executeQuery();
        if(rs.next())
        {
            out.println("<h1>~~~~~~Employee "+name+" Exist~~~~~~</h1>");
            PreparedStatement pst1 = con.prepareStatement("Update emp set salary=? where
empid=?");
            PreparedStatement pst2 = con.prepareStatement("Update emp set age=? where
empid=?");
            PreparedStatement pst3 = con.prepareStatement("Update emp set ename=? where
empid=?");
            pst1.setString(1,sal);
            pst1.setString(2,eid);
            pst2.setString(1,age);
            pst2.setString(2,eid);
            pst3.setString(1,name);
            pst3.setString(2,eid);
            pst1.executeUpdate();
            pst2.executeUpdate();
            pst3.executeUpdate();
        }
        else
        {
            out.print("<h1>Employee record does not exists..!!</h1>");
        }
    }
```
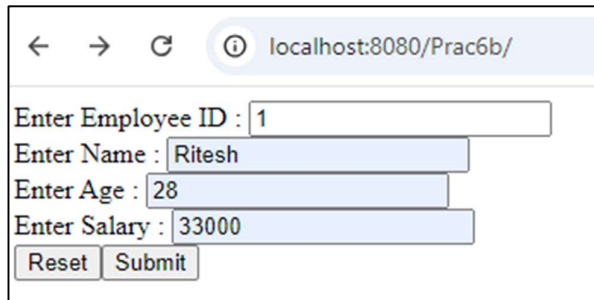
```
        catch(Exception e)
        { out.println(e); }


%>
</body>
</html>
```

Output:
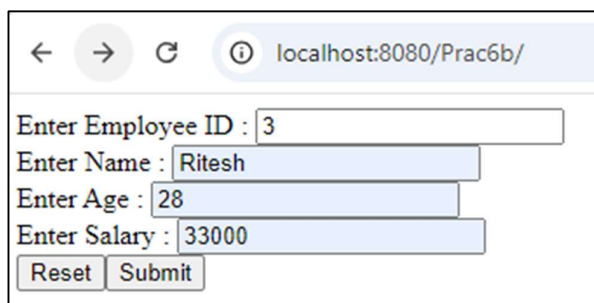
#	empid	ename	age	salary
1	1	Ritesh	28	33000
2	2	Om	30	40000