Day 5 Classwork:

Unique Id: E0119023

Qno:1

Create a login form with the following details

- 1. User-name
- 2. Password.

Create a table called as "Users" storing all the details of the user login details.

Create two buttons in the webpage - login, new user.

Login button - should use a JSP to read the content of database and print user validation success (if username and password) are correct.

If username & password are wrong, then print "invalid".

new user - should navigate to another page where the user can enter his username and password. These info should be stored in the database.

Program:

Xml file contents:

Code.java contents:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class code extends HttpServlet {
    public void init() throws ServletException {
    }
    public static String adduser(String username, String password) {
```

```
try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&
useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
"");
            try {
                java.sql.Statement stmt=con.createStatement();
                int a=stmt.executeUpdate("insert into userdb values('"+username+"','"+pass
word+"');");
                return("success");
            } catch (Exception e) {
                return("Username already exists please try another username");
                // TODO: handle exception
            finally {
                con.close();
        } catch (Exception e) {
            // TODO: handle exception
        return("finished");
   public static String check(String username, String password)
        try {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&
","root",auseJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
"");
            try {
                java.sql.Statement stmt=con.createStatement();
                ResultSet rs=stmt.executeQuery("select * from userdb where username like '
+username+"';");
                while(rs.next())
                if (username.equals(rs.getString(1))){
                    if (rs.getString(2).equals(password)){
                        return("Success you have logged in through my self made service");
                    else{
                        return("password wrong");
            } catch (Exception e) {
                return("username does not exists"+username+" -
  " + password + " error : " +e);
                // TODO: handle exception
            finally {
               con.close();
```

```
} catch (Exception e) {
            // TODO: handle exception
       return("Finished");
   public void doPost(HttpServletRequest request, HttpServletResponse response)
          throws ServletException, IOException {
                response.setContentType("text/html");
                PrintWriter out = response.getWriter();
                String username="",password="",options="",a="";
                out.println("<html><body><h2>");
                try {
                    username=request.getParameter("username");
                    password=request.getParameter("password");
                    options=request.getParameter("option");
                    if (options.equals("n")){
                        out.println(adduser(username,password) );
                    else if(options.equals("o")){
                        out.println(check(username,password) );
                    else{
                    out.println("select a if you are a new user or a Excesting user (1)"+o
ptions);
                catch (Exception e) {
                  out.println("Error<br>>" + e );
                // out.println("hello"+ e );
                out.println("</h2></body></html>");
       public void destroy() {
```

Html content:

Q.No 2: create a online product search tool. Insert few details in the dataset (min 10 values). The table products should have the following columns

- 1. ID
- 2. Name
- 3. Price

The user can enter the name of the product to search.

Design a webpage which asks for product name, then design a JSP page which searches the product and display the information.

Program:

Jsp file:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>search products</title>
</head>
<body>
   <%@ page import="java.sql.*" %>
   <form action="./problem2.jsp" method="post">
   <input type="search" name="a" id="">
   <input type="submit" value="search">
   </form>
   String name="";
   if (request.getParameter("a") != null){
       name=request.getParameter("a");
   try {
            Connection con = null;
           Class.forName("com.mysql.cj.jdbc.Driver");
```

```
con = DriverManager.getConnection("jdbc:mysql://localhost/stv?useUnicode=true&
useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC", "root",
"");
         try {
            ');
            java.sql.Statement stmt=con.createStatement();
            ResultSet rs=stmt.executeQuery("select * from products where name like '"
+name+"';");
            while(rs.next())
            >"+rs.getInt(3)+"");
         } catch (Exception e) {
            // TODO: handle exception
         finally {
            out.println("");
            con.close();
      } catch (Exception e) {
         // TODO: handle exception
</body>
 /html>
```

Output:

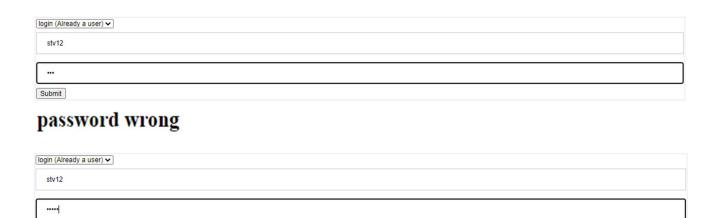
Output for problem 1:

new user?	
stv12	
Submit	

success



Username already exists please try another username



Success you have logged in through my self made service

Output for problem 2:

Submit

