# Experiment No:-1

**Aim:-** Write HTML/javascript to display your cv in navigator.

**Code:-**

<!DOCTYPE html>

<html>

<head>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

<title>CV Alok</title>

</head>

<body>

<div class="container w-50 border border-danger border-top-0 border-bottom-0">

<h1>Alok Maurya</h1>

<h3>JSS Academy of Technical Education Noida <br/>

Phone:+91895750000 <br>alokmaabcd@gmail.com</h3>

<hr/>

<br>

<h2><b><u>Education</u></b></h2>

<table border=5px>

<tr>

<th>S.No.</th>

<th>Institute</th>

<th>Class</th>

<th>Year of Passing</th>

<th>Percentage</th>

</tr>

<tr>

<td>1</td>

<td>B.S.S. Lalapur Suithalalan Shahaganj Jaunpur</td>

<td>10th</td>

<td>2018</td>

<td>87</td>

</tr>

<tr>

<td>2</td>

<td>SGS Inter College Samodhpur Jaunpur</td>

<td>12th</td>

<td>2020</td>

<td>77</td>

</tr>

<tr>

<td>3</td>

<td>JSSATEN</td>

<td>B.Tech</td>

<td>2021</td>

<td>75</td>

</tr>

</table>

<h2><b><u>Skills</u></b></h2>

<ol type="1">

<li>HTML & CSS,C,C++,Python,Java</li>

<li>React,DSA,AWS</li>

</ol>

<hr>

<h2><b><u>Experience</u></b></h2>

<ol type="1">

<li>Web Developer Intern</li>

</ol>

<hr>

<h2><b><u>ExtraCarriculars</u></b></h2>

<ol type="1">

<li>Recycling Club</li>

<li>College computer society Member</li>

<li>Old Books Distribution club</li>

</ol>

<hr>

<h2><b><u>Interests</u></b></h2>

<ol type="1">

<li>Football</li>

<li>Cricket</li>

<li>Programming</li>

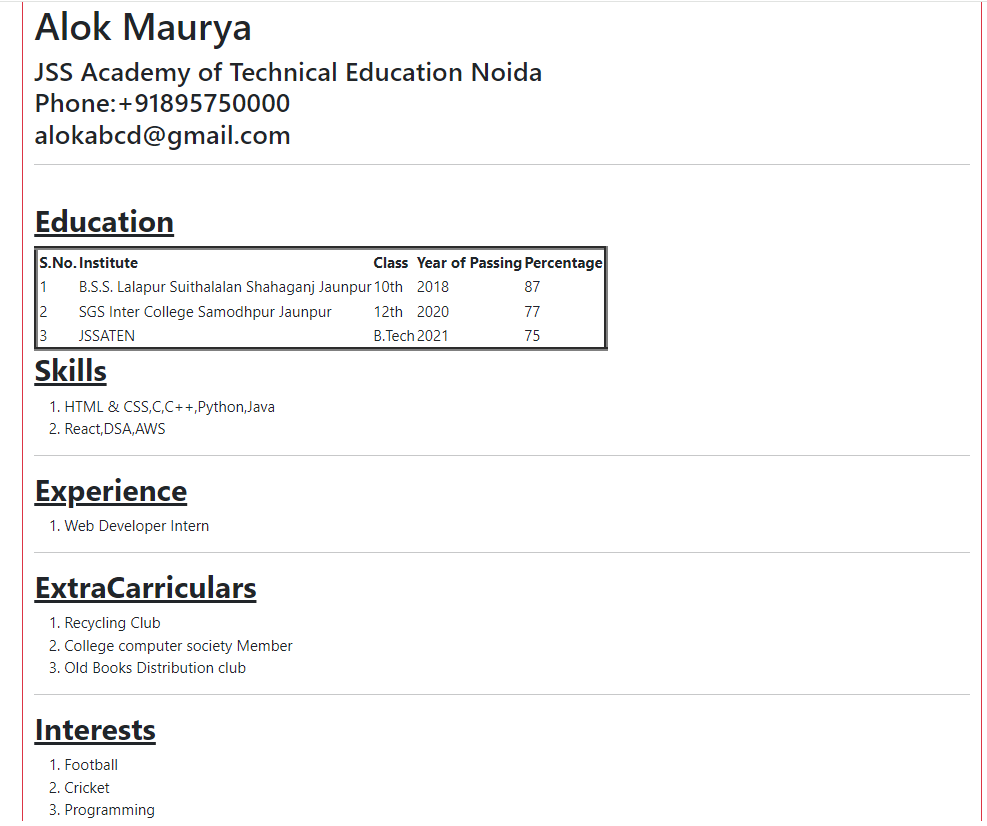
</ol>

</div>

</body>

</html>

**Output:-**



# Experiment No:-2

**Aim:-** Write a program to create a registration form.

**Code:-**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

table,th,td {

border: 1px solid black;

border-collapse: collapse;

}

th,td {

padding: 5px;

text-align: center;}

</style>

<title>Form</title>

</head>

<body>

<div style="width:60%;margin: auto;background-color: bisque;">

<h1 style="text-align:center"> REGISTRATION FORM </h1>

<form>

<strong>First name:</strong><br>

<input type="text" name="firstname">

<br>

<strong>Last name:</strong><br>

<input type="text" name="lastname">

<br>

<strong>Sex:</strong><br>

<input type="radio" name="male">Male<br>

<input type="radio" name="female">Female

<hr>

<strong>Username:</strong><br>

<input type="text" name="username">

<br>

<strong>Password:</strong><br>

<input type="Password" name="password">

<br>

<hr>

<table style="width:100%">

<caption style="font-size: 20px;"><strong>Educational Qualifications</strong></caption>

<tr>

<th>Course</th>

<th>Marks Obtained(%)</th>

<th>Institute Name</th>

</tr>

<tr>

<td>10th</td>

<td>85%</td>

<td>B.S.S. Lalapur Suithakalan Jaunpur</td>

</tr>

<tr>

<td>12th</td>

<td>81%</td>

<td>S.G.S InterCollage Samodhpur Jaunpur</td>

</tr>

<tr>

<td>Graduation</td>

<td>Persuing</td>

<td>JSSATEN</td>

</tr>

</table>

<hr>

<strong>Address:</strong><br>

<textarea name="address" rows="10" cols="80"></textarea>

<br>

<hr>

<strong>Elective Subject:</strong><br>

<input type="radio" name="subject" value="Computer">Computer<br>

<input type="radio" name="subject" value="Arts">Arts<br>

<input type="radio" name="subject" value="Physics">Pyhsics<br>

<input type="radio" name="subject" value="Maths">Maths<br>

<hr>

<strong>Comment:</strong>

<textarea name="comment" rows="10" cols="40"></textarea>

<hr>

<button type="button" onclick="alert('Your form is submitted')" style="margin-left:600px">Submit</button>

<input type="reset" name="reset">

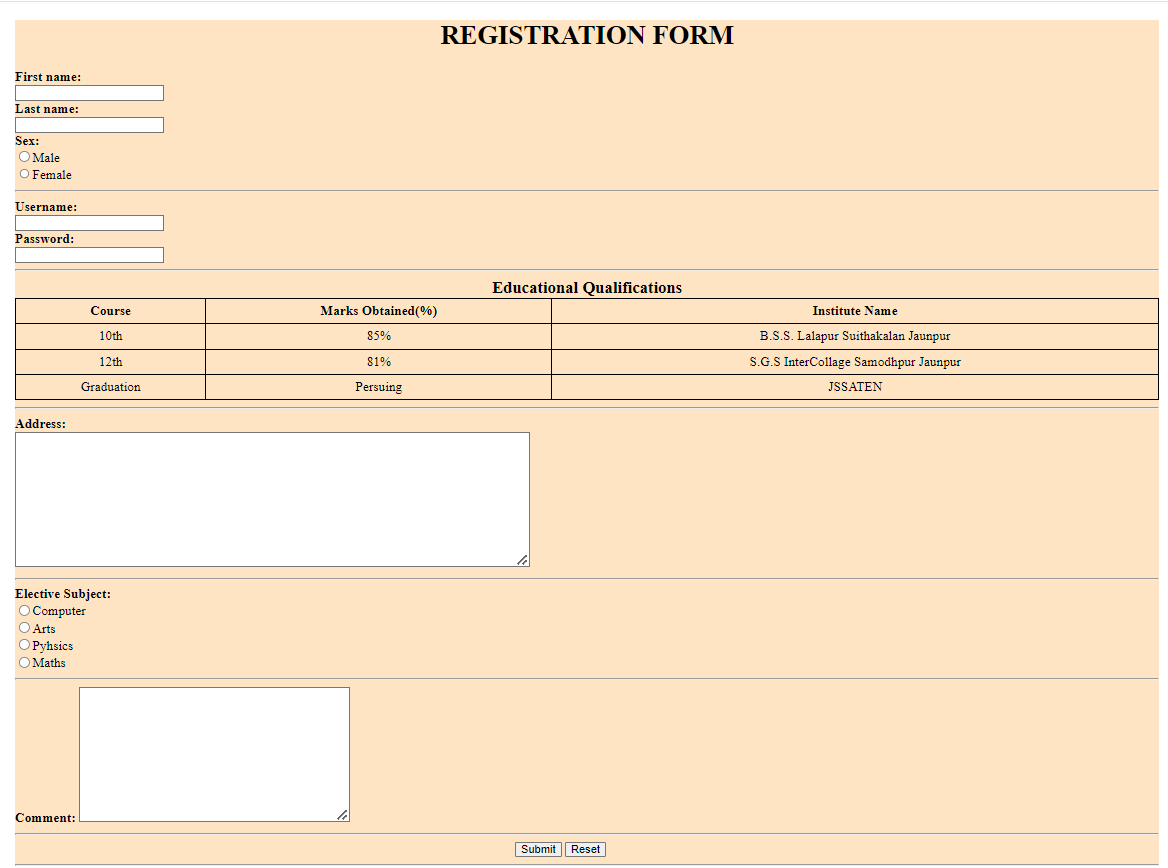
<br>

<hr>

</form>

</div>

</body>

</html>

# Experiment No:-3

**Aim:-** Write programs using Java script for Web Page to display browsers information.

**Code:-**

<!DOCTYPE html>

<html>

<head>

<title>Browser Information</title>

<link rel="stylesheet" href="styles.css" />

</head>

<body>

<h1>Browser Information</h1>

<hr>

<p>

The <b>navigator</b> object contains the following information about the browser you are using.

</p>

<ul>

<script LANGUAGE="JavaScript" type="text/javascript"> document.write("<li><b>Code Name:</b> " + navigator.appCodeName); document.write("<li><b>App Name:</b> " + navigator.appName); document.write("<li><b>App Version:</b> " + navigator.appVersion); document.write("<li><b>User Agent:</b> " + navigator.userAgent); document.write("<li><b>Language:</b> " + navigator.language); document.write("<li><b>Platform:</b> " + navigator.platform);

</script>

</ul>

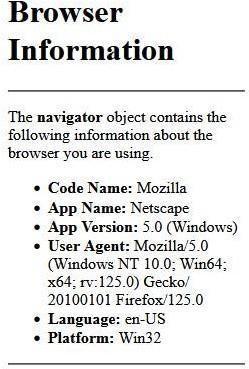
<hr>

<script src="script.js"></script>

</body>

</html>

**Output:-**



# Experiment No:-4

**Aim:** Write a Java applet to display the Application Program screen i.e. calculator and other.

**Code:-**

import java.awt.\*; import java.awt.event.\*; import java.applet.\*;

public class CalculatorApplet extends Applet implements ActionListener { TextField tf;

Button b[]; String s1, s2, s3;

double a, b, result; public void init() {

tf = new TextField(10); add(tf);

String[] buttonLabels = {"7", "8", "9", "+", "4", "5", "6", "-", "1", "2", "3", "\*", "C", "0", "=", "/"};

b = new Button[buttonLabels.length];

for (int i = 0; i < buttonLabels.length; i++) { b[i] = new Button(buttonLabels[i]); add(b[i]);

b[i].addActionListener(this); }}

public void actionPerformed(ActionEvent ae) { String str = ae.getActionCommand();

char ch = str.charAt(0);

if (Character.isDigit(ch) || str.equals(".")) { tf.setText(tf.getText() + str);

} else if (str.equals("C")) { tf.setText("");

} else if (str.equals("=")) { s2 = tf.getText();

a = Double.parseDouble(s1);

b = Double.parseDouble(s2); if (s3.equals("+")) {

result = a + b;

} else if (s3.equals("-")) { result = a - b;

} else if (s3.equals("\*")) { result = a \* b;

} else if (s3.equals("/")) { result = a / b;

}

tf.setText("" + result);

} else {

s1 = tf.getText(); s3 = str; tf.setText("");}}}

**Output:-**



# Experiment No:-5

**Aim:** Writing program in XML for creation of DTD, which specifies set of rules.

**Code:-**

<?xml version = "1.0" standalone="yes"?>

<!DOCTYPE document [

<!ELEMENT document (employee)\*>

<!ELEMENT employee (name, hiredate, projects)>

<!ELEMENT name (lastname, firstname)>

<!ELEMENT lastname (#PCDATA)>

<!ELEMENT firstname (#PCDATA)>

<!ELEMENT hiredate (#PCDATA)>

<!ELEMENT projects (project)\*>

<!ELEMENT project (product,id,price)>

<!ELEMENT product (#PCDATA)>

<!ELEMENT id (#PCDATA)>

<!ELEMENT price (#PCDATA)>

] >

<document>

<employee>

<name>

<lastname>Kelly</lastname>

<firstname>Grace</firstname>

</name>

<hiredate>October 15, 2005</hiredate>

<projects>

<project>

<product>Printer</product>

<id>111</id>

<price>$111.00</price>

</project>

<project>

<product>Laptop</product>

<id>222</id>

<price>$989.00</price>

</project>

</projects>

</employee>

</document>

# Experiment No:6

**Aim:-** Program to illustrate JDBC connectivity and maintaining database by sending queries.

**Code:-**

import java.io.\*;

import java.sql.\*;

class GFG {

public static void main(String[] args) throws Exception

{

String url

= "jdbc:mysql://localhost:3306/table\_name"; // table details String username = "rootgfg"; // MySQL credentials

String password = "gfg123"; String query

= "select \*from students"; // query to be run Class.forName(

"com.mysql.cj.jdbc.Driver"); // Driver name Connection con = DriverManager.getConnection(

url, username, password); System.out.println(

"Connection Established successfully"); Statement st = con.createStatement(); ResultSet rs

= st.executeQuery(query); // Execute query rs.next();

String name

= rs.getString("name"); // Retrieve name from db

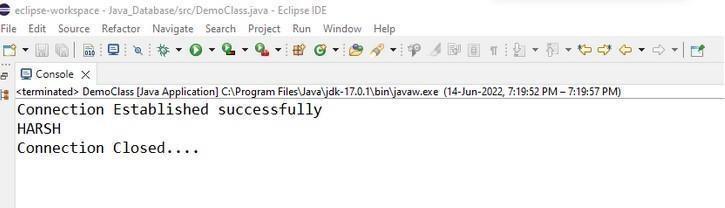
System.out.println(name); // Print result on console st.close(); // close statement

con.close(); // close connection System.out.println("Connection Closed ");

}

}

**Output:-**



# Experiment No:7

**Aim:-** Install APACHE TOMCAT webserver .Access the static web page for login id using this server.

**Code:-**

Client-side HTML Login Validation Form:

File Name: SignIn.html

<body>

<h2 align="center">Sign in</h2>

<form method="get" action="http://localhost:8888/india/Login.jsp">

<h3>

Enter ID <input type="text" name="t1"> <br>

Enter Password <input type="password" name="t2"> <br>

<input type="submit" value="Sign in">

</h3>

</body>

In the action attribute Login.jsp file is given to invoke. Assume localhost is the server. The port number on which Tomcat is running is 8888. india is the folder created in Tomcat. The attribute method can be given two values of either get or post; here, get is given.

Following is the server-side JSP file that includes a Scriptlet to understand what and how to code scriptlet

File Name: Login.jsp

<body>

<h2 align="center">Log in Validation </h2>

<%

String str1=request.getParameter("t1");

String str2=request.getParameter("t2");

if(str1.equalsIgnoreCase("snrao") && str2.equals("java"))

{

out.println("<h3>Your Login is Successful</h3>");

}

else

{

out.println("<h3>Sorry, your Login is Failed</h3>");

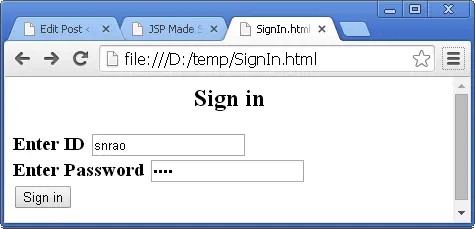
}

%>

</body>

**Output:-**

Screenshot of HTML file SignIn.html when values are entered.



Screenshot of response when correct values are entered.



Screenshot of response when wrong values are entered



# Experiment No:-8

**Aim:-** Create a Cookie and add four user id’s and passwords to this Cookie.

**Code:-**

<html>

<head>

<title> login Page </title>

<script type="text/javascript"> function setusercookies()

{ var user1 ={}; user1.user1 = "user1"; user1.pwd1 = "user1123";

jsonString=JSON.stringify(user1); document.cookie

="cookieObject="+jsonString; var user2 ={}; user2.user2="user2"; user2.pwd2="user2123"; jsonString=JSON.stringify(user2)

;

document.cookie ="cookieObject1="+jsonString; var user3 ={};

user3.user3="user3"; user3.pwd3="user3123"; jsonString=JSON.stringify(user3)

;

document.cookie ="cookieObject2="+jsonString; var user4 ={};

user4.user4="user4"; user4.pwd4="user4123"; jsonString=JSON.stringify(user4)

;

document.cookie ="cookieObject3="+jsonString;

alert("User id and password of four users are set as cookie successfully \n"+document.cookie);

}

function cleartextboxes()

{

document.getElementById("usr").value=""; document.getElementById("pwd").value="";

}

function getCookie()

{

var nameValueArray = document.cookie.split("="); var user=document.getElementById("usr").value; var pass=document.getElementById("pwd").value; for(var j=0;j<4;j++)

{

var namesplit=nameValueArray[j]; for(var i=0;i<namesplit.length;i++)

var n=namesplit.indexOf(":");

var cuser=namesplit.substring(namesplit.indexOf(":")+2,namesplit.indexOf(",")-1);

var cpass=namesplit.substring(namesplit.indexOf(":",parseInt(n+1))+2,namesplit.indexOf(";")

}

if(user==cuser)

{

break;

}

}

if(user!="" && pass!="")

{

if(user==cuser && pass==cpass)

{

alert("Welcome "+cuser);

}

else

{

alert("You are not a authorised person");

} }

else

alert("Please enter required fields...");

}

</script>

</head>

<body onload="setusercookies()">

<table border="1" size="50%">

<tr>

<td>User Name:</td>

<td><input type="text" id="usr" /></td>

</tr>

<tr>

<td>Password:</td>

<td><input type="password" id="pwd" /></td>

</tr>

<tr>

<td colspan="2">

<input type="button" value="Clear" onclick="cleartextboxes()"/>

<input type="button" value="Login" onclick="getCookie()"/>

</td>

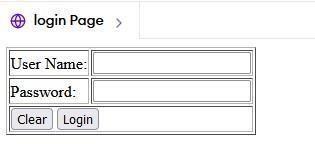
</tr>

</table>

</body>

</html>

**OUTPUT:**



# Experiment No:-9

**Aim:** Write a java program/servlet/JSP to connect database and extract data from the tables and display them

**Code:-**

## Registration.html:

<html>

<head>

<title>Registration page</title>

</head>

<body bgcolor="#00FFFf">

<form METHOD="POST" ACTION="register">

<CENTER>

<table>

<center>

<tr> <td> Username </td>

<td><input type="text" name="usr"> </td> </tr>

<tr><td> Password </td>

<td><input type="password" name="pwd"> </td> </tr>

<tr><td>Age</td>

<td><input type="text" name="age"> </td> </tr>

<tr> <td>Address</td>

<td> <input type="text" name="add"> </td> </tr>

<tr> <td>email</td>

<td> <input type="text" name="mail"> </td> </tr>

<tr> <td>Phone</td>

<td> <input type="text" name="phone"> </td> </tr>

<tr> <td colspan=2 align=center> <input type="submit" value="submit"> </td> </tr>

</center>

</table>

</form>

</body>

## Login.html

<html>

<head>

<title>Registration page</title>

</head> <body bgcolor=pink> <center> <table>

<form METHOD="POST" ACTION="authent">

<tr> <td> Username </td>

<td><input type="text" name="usr"></td> </tr>

<tr> <td> Password </td>

<td> <input type="password" name="pwd"> </td> </tr>

<tr> <td align=center colspan="2"><input type="submit" value="submit"></td> </tr>

</table> </center>

</form>

</body>

</html>

## Ini.java:

import javax.servlet.\*; import java.sql.\*; import java.io.\*;

public class Ini extends GenericServlet

{

private String user1,pwd1,email1;

public void service(ServletRequest req,ServletResponse res) throws ServletException,IOException

{

user1=req.getParameter("user"); pwd1=req.getParameter("pwd"); email1=req.getParameter("email")

; res.setContentType("text/html"); PrintWriter out=res.getWriter(); try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@195.100.101.158:1521:cclab","scott","tiger");

PreparedStatement st=con.prepareStatement("insert into personal values(?,?,?,?,?,?)"); st.setString(1,user1);

st.setString(2,pwd1); st.setString(3,"25");

st.setString(4,"hyd"); st.setString(5,email1); st.setString(6,"21234");

st.executeUpdate(); con.close();

}

catch(SQLException s)

{ out.println("not found "+s);

}

catch(ClassNotFoundException c)

{

out.println("not found "+c);

}

} }

## web.xml:

<web-app>

<servlet>

<servlet-name>init1</servlet-name>

<servlet-class>Ini</servlet-class>

</servlet>

<servlet-mapping>

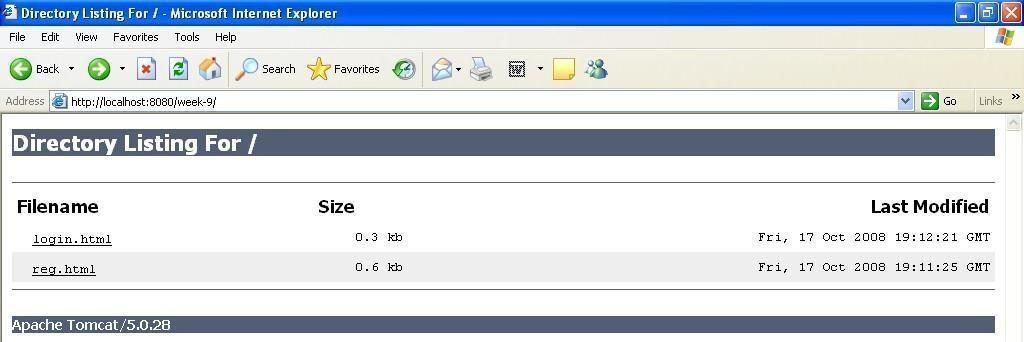
<servlet-name>init1</servlet-name>

<url-pattern>/regis</url-pattern>

</servlet-mapping>

</web-app>

**OUTPUT:**



# Experiment No:-10

**Aim:-** Write a JSP which insert the details of the 3 or 4 users who register with the web site by using registration form.

**Code:-**

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<%@ page import="java.sql.\*" %>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>User Registration</title>

</head>

<body>

<h1>User Registration</h1>

<%

// JDBC URL, username, and password of MySQL server String url = "jdbc:mysql://localhost:3306/userdb";

String user = "your\_username"; String password = "your\_password";

// Register JDBC driver Class.forName("com.mysql.jdbc.Driver"); Connection conn = null;

Statement stmt = null;

try {

// Open a connection

conn = DriverManager.getConnection(url, user, password);

// Execute SQL query

stmt = conn.createStatement();

// Check if the form is submitted

if (request.getMethod().equals("POST")) { String[] usernames =

request.getParameterValues("username"); String[] emails = request.getParameterValues("email"); String[] passwords = request.getParameterValues("password");

for (int i = 0; i < usernames.length; i++) { String username = usernames[i]; String email = emails[i];

String password = passwords[i];

// Insert user details into the database

String sql = "INSERT INTO users (username, email, password) VALUES ('" + username

+ "', '" + email + "', '" + password + "')";

stmt.executeUpdate(sql);

}

out.println("<p>Registration successful for all users!</p>")

}

} catch(SQLException se) {

// Handle errors for JDBC se.printStackTrace();

} catch(Exception e) {

// Handle errors for Class.forName e.printStackTrace();

} finally {

// Finally block used to close resources try

{

if(stmt != null) stmt.close();

} catch(SQLException se2) {

} // nothing we can do try { if(conn != null) conn.close();

} catch(SQLException se) { se.printStackTrace();

} // end finally try

} // end try

%>

<form method="post">

<label for="username">Username:</label>

<input type="text" name="username" required><br>

<label for="email">Email:</label>

<input type="email" name="email" required><br>

<label for="password">Password:</label>

<input type="password" name="password" required><br>

<!-- You can repeat the above fields for 3 or 4 users -->

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

</form>

</body>

</html>

**Output:-**