

i/p

```
import java.io.*;
import java.net.*;
public class In_Address{
public static void main(String[] args){
try{
InetAddress ip=InetAddress.getByName("www.amazon.com");

System.out.println("Host Name: "+ip.getHostName());
System.out.println("IP Address: "+ip.getHostAddress());
}catch(Exception e){System.out.println(e);}
}
}
```

o/p

Host Name: www.amazon.com
IP Address: 13.227.140.95

Exp.9 _Source Code:

HelloWorld.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<font color="gray" size="5">

<%= "Hello World!" %>
</font>
</body>
<center>
<br><br>
<font color="gray" size="5">
    The date now is: <%= new java.util.Date() %>
</font>
<center>
<body>
</html>
</html>
```

Output:



Source Code Exp8:

Databasecreation.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class Databasecreation {
    static final String DB_URL = "jdbc:mysql://localhost:3306/";
    static final String USER = "root";
    static final String PASS = "admin";

    public static void main(String[] args) {
        // Open a connection
        try(Connection conn = DriverManager.getConnection(DB_URL, USER,
PASS);
            Statement stmt = conn.createStatement();
        ) {
            String sql = "CREATE DATABASE STUDENTS1";
            stmt.executeUpdate(sql);
            System.out.println("Database created successfully...");
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

Tablecreation.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
```

```

import java.sql.Statement;

public class Tablecreation {
    static final String DB_URL =
"jdbc:mysql://localhost:3306/STUDENTS";
    static final String USER = "root";
    static final String PASS = "admin";

    public static void main(String[] args) {
        // Open a connection
        try(Connection conn = DriverManager.getConnection(DB_URL, USER,
PASS);
            Statement stmt = conn.createStatement();
        ) {
            String sql = "CREATE TABLE REG " +
                "(id INTEGER not NULL, " +
                " first VARCHAR(255), " +
                " last VARCHAR(255), " +
                " age INTEGER, " +
                " PRIMARY KEY ( id ))";

            stmt.executeUpdate(sql);
            System.out.println("Created table in given database...");
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}

```

Insertingdata.java

```

import java.sql.Connection;
import java.sql.DriverManager;

```

```

import java.sql.SQLException;
import java.sql.Statement;

public class Insertingdata {
    static final String DB_URL =
"jdbc:mysql://localhost:3306/STUDENTS";
    static final String USER = "root";
    static final String PASS = "admin";

    public static void main(String[] args) {
        // Open a connection
        try(Connection conn = DriverManager.getConnection(DB_URL, USER,
PASS);
            Statement stmt = conn.createStatement();
        ) {
            // Execute a query
            System.out.println("Inserting records into the table...");
            String sql = "INSERT INTO REG VALUES (100, 'Zara', 'Ali', 18)";
            stmt.executeUpdate(sql);
            sql = "INSERT INTO REG VALUES (101, 'Mahnaz', 'Fatma', 25)";
            stmt.executeUpdate(sql);
            sql = "INSERT INTO REG VALUES (102, 'Zaid', 'Khan', 30)";
            stmt.executeUpdate(sql);
            sql = "INSERT INTO REG VALUES(103, 'Sumit', 'Mittal', 28)";
            stmt.executeUpdate(sql);
            System.out.println("Inserted records into the table...");
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}

```

Displaydata.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class Displaydata {
    static final String DB_URL =
"jdbc:mysql://localhost:3306/STUDENTS";
    static final String USER = "root";
    static final String PASS = "admin";
    static final String QUERY = "SELECT id, first, last, age FROM REG";
    public static void main(String[] args) {
        // Open a connection
        try(Connection conn = DriverManager.getConnection(DB_URL, USER,
PASS);
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery(QUERY);
        ) {
            while(rs.next()){
                //Display values
                System.out.print("ID: " + rs.getInt("id"));
                System.out.print(", Age: " + rs.getInt("age"));
                System.out.print(", First: " + rs.getString("first"));
                System.out.println(", Last: " + rs.getString("last"));
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

Output Exp8:

Database created successfully...

Connecting to a selected database...

Connected database successfully...

Created table in given database...

Inserting records into the table...

Inserted records into the table...

ID: 100, Age: 18, First: Zara, Last: Ali

ID: 101, Age: 25, First: Mahnaz, Last: Fatma

ID: 102, Age: 30, First: Zaid, Last: Khan

ID: 103, Age: 28, First: Sumit, Last: Mittal

Source Code Exp10:

Index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Calculator</title>
</head>
<body>
<center>
<form method =get action=Calculator>
Number-1<input type=text name =t1><br><br>
Number-2<input type=text name =t2><br><br>
<input type =submit value = "+" name =btn>
<input type =submit value = "-" name =btn>
<input type =submit value = "*" name =btn>
<input type =submit value = "/" name =btn>
</form>
</center>
</body>
</html>
```

Calculator.html

```
package Perform;
```

```
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 Calculator extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
```



```

        response.setContentType("text/html");
        PrintWriter out=null;
        try
        {
            out=response.getWriter();
            out.println("<center>");
            int
a=Integer.parseInt(request.getParameter("t1"));
            int
b=Integer.parseInt(request.getParameter("t2"));
            int c=0;
            String op=request.getParameter("btn");
            if (op.equals("+")) c= a+b;
            if (op.equals("-")) c= a-b;
            if (op.equals("*")) c= a*b;
            if (op.equals("/")) c= a/b;

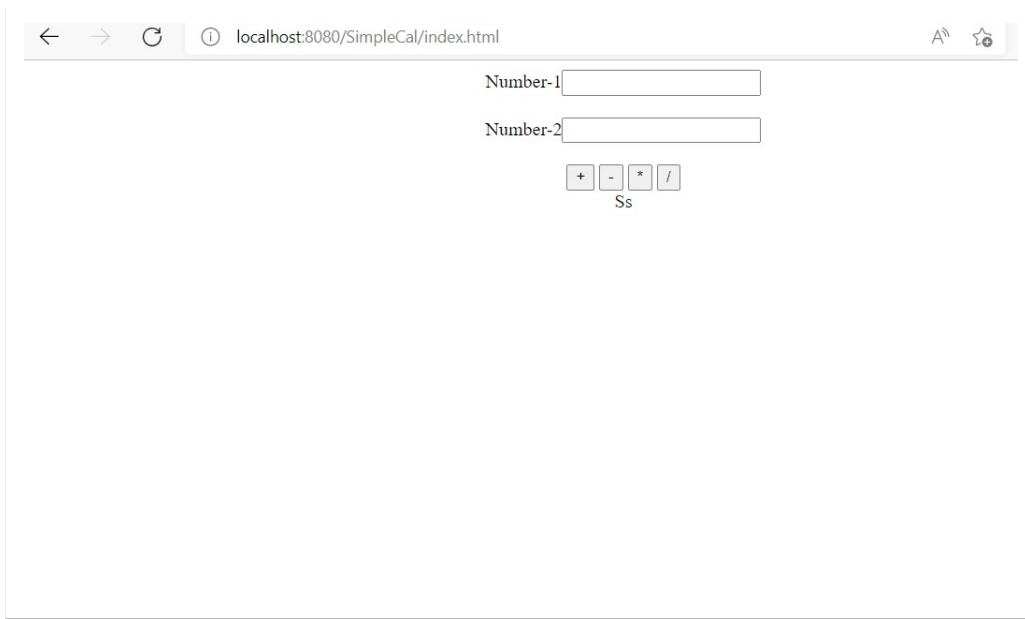
out.println("<h3>" +a+op+b+"="+c+"</h3>");
        }
        catch (Exception e)
        {
            out.println("Error:"+e.getMessage());

        }
        finally {
            out.println("<br>");
            out.println("To goto main page<a
href=index.html> CLICK HERE</a>");
            out.println("/center");
        }
    }
}

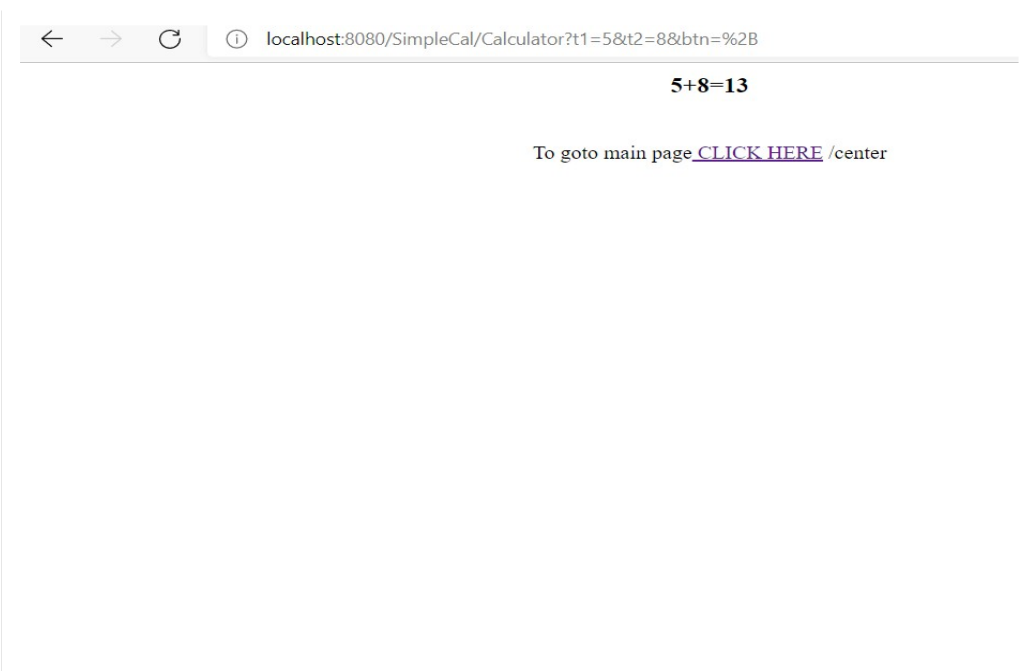
```

```
        protected void doPost(HttpServletRequest request,
HttpServletRequest response) throws ServletException, IOException {
            // TODO Auto-generated method stub
            doGet(request, response);
        }
    }
```

Output Exp10:



A screenshot of a web browser window. The address bar shows "localhost:8080/SimpleCal/index.html". The page content includes two input fields labeled "Number-1" and "Number-2". Below these fields are four buttons: "+", "-", "*", and "/". A small "Ss" label is positioned below the buttons.



A screenshot of a web browser window. The address bar shows "localhost:8080/SimpleCal/Calculator?t1=5&t2=8&btn=%2B". The page content displays the result "5+8=13" in bold. Below this, there is a link "To goto main page [CLICK HERE](#) /center".

Source Code Exp.7:

Home.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="http://localhost:8080/SimpleLogin/home.jsp"> Home</a>
<a href="http://localhost:8080/SimpleLogin/login.jsp"> Login</a>
</body>
</html>
```

Login.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="LoginCheck" method="post">
<pre>
UserName :<input type="text" name="name">
Password: <input type="text" name="pass">

        <input type="Submit" value="Submit">
</pre>
</form>
</body>
</html>
```

Welcome.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<center>
<br><br>
<font color="gray" size="5">
Welcome!
</font>
</center>
```

```
<font color="gray" size="5">
User Name is :${name}<br/>
</font>
<font color="gray" size="5">
Password is :${pass}
</font>
```

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

Error.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
Unsuccessful login!
</body>
</html>
```

LoginServlet:

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

/**
 * Servlet implementation class LoginCheck
 */
public class LoginCheck extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```

/**
 * @see HttpServlet#HttpServlet()
 */
public LoginCheck() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request,
 HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request,
 HttpServletResponse response) throws ServletException,
 IOException {
    // TODO Auto-generated method stub
    response.getWriter().append("Served at:
").append(request.getContextPath());
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
 HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
 HttpServletResponse response) throws ServletException,
 IOException {
    doGet(request, response);
}

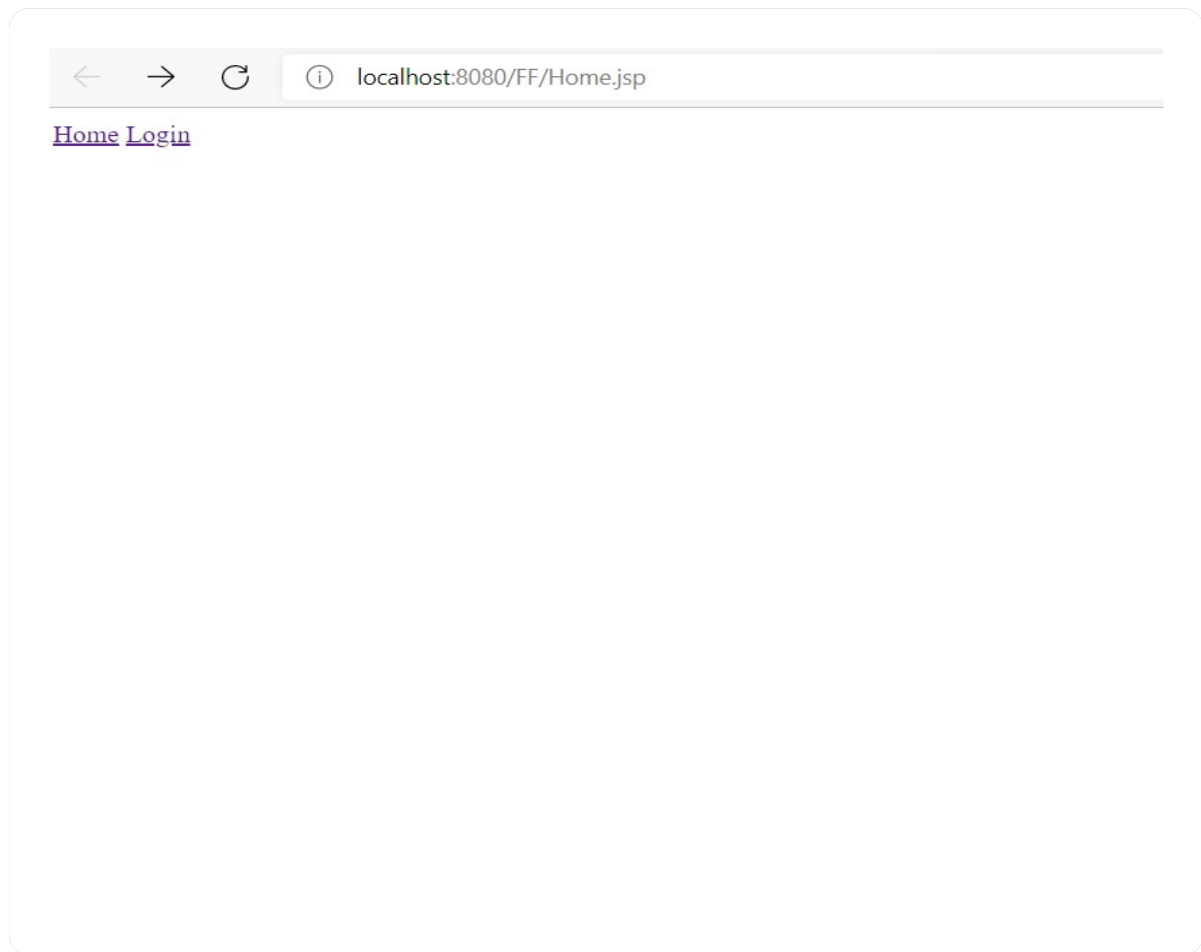
```

```
String name=request.getParameter("name");
String pass=request.getParameter("pass");
if(name.equals("Sujata") && pass.equals("pass123"))
{
    HttpSession session=request.getSession();
    session.setAttribute("name", name);

    session.setAttribute("pass", pass);
    response.sendRedirect("member.jsp");

}
else
{
    response.sendRedirect("error.jsp");
}
}
```

Output Exp.7:



←

→

↻

ⓘ

localhost:8080/SimpleLogin/login.jsp

UserName :

Password:

Submit

←

→

↻

ⓘ

localhost:8080/SimpleLogin/member.jsp

A^{aa}

☆

☆

🔍

👤

⋮

Welcome!

User Name is :Sujata

Password is :pass123

Activate Windows

Go to Settings to activate Windows



localhost:8080/SimpleLogin/error.jsp

Unsuccessful login!

Source Code Exp.4:

```
package exp4;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.ResultSet;

public class po{
    static final String DB_URL =
"jdbc:mysql://localhost:3306/sonoo";
    static final String USER = "root";
    static final String PASS = "admin";

    public static void main(String[] args) {
        // Open a connection
        System.out.println("Database Connected
Successfully...");
        try(Connection conn =
DriverManager.getConnection(DB_URL, USER, PASS);
            Statement stmt = conn.createStatement();
        ) {
            // Execute a query
            System.out.println("Inserting records into the table...");
            String sql = "INSERT INTO Registration VALUES (142,
'Anisha')";
            stmt.executeUpdate(sql);
```

```

    sql = "INSERT INTO Registration VALUES (215, 'Araya')";
    stmt.executeUpdate(sql);
    sql = "INSERT INTO Registration VALUES (221, 'Bhavan')";
    stmt.executeUpdate(sql);
    sql = "INSERT INTO Registration VALUES(221, 'Ishika')";
    stmt.executeUpdate(sql);
    System.out.println("Inserted records into the table...");
    String query = "SELECT * FROM Registration ";
    Statement st = conn.createStatement();
    ResultSet rs = st.executeQuery(query);
    while (rs.next())
    {
        int id = rs.getInt("p");
        String Name = rs.getString("n");

        // print the results
        System.out.format("%s, %s\n", id, Name);
    }
    st.close();
}
catch (Exception e)
{
    System.err.println("Got an exception! ");
    System.err.println(e.getMessage());
}
}
}

```

Output Exp.4:

Database Connected Successfully...

Inserting records into the table...

Inserted records into the table...

142, Anisha

215, Araya

221, Bhavan

221, Ishika

Source Code Exp.5:

RMI_SER.java

```
import java.io.*;
import java.rmi.*;
import java.net.*;
public class RMI_SER
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            palindrome twox = new palindrome();
            Naming.bind("palin", twox);
            System.out.println("Object registered");
        }
        catch(Exception e)
        {
            System.out.println("Exception" + e);
        }
    }
}
```

Palinterface.java:

```
import java.rmi.Remote;
import java.rmi.RemoteException;
interface PalInterface extends Remote
```

```
{  
  
    public int palin(String a) throws RemoteException;  
}
```

Palindrome.java

```
import java.rmi.*;  
import java.lang.*;  
import java.rmi.server.*;  
public class palendrome extends UnicastRemoteObject  
implements PalInterface  
{  
    public palendrome() throws RemoteException { }  
    public int palin(String a) throws RemoteException  
    {  
        System.out.println("Hello");  
        StringBuffer str = new StringBuffer(a);  
        String str1 = str.toString();  
        System.out.println("Print : " + str1.toString());  
        StringBuffer str2 = str.reverse();  
        System.out.println("Print : " + str2.toString());  
        int b = str1.compareTo(str2.toString());  
        System.out.println("Print : " + b);  
        if (b == 0)  
            return 1;  
        else  
            return 0;  
    }  
}
```

```

    }
}
Palclient.java
import java.io.*;
import java.rmi.*;
import java.net.*;
public class palclient
{
    public static void main(String args[]) throws Exception
    {
        try
        {
            String s1 = "rmi://localhost/palin";
            PalInterface onex = (PalInterface)Naming.lookup(s1);
            int m = onex.palin("madam");
            System.out.println("Print : " + m);
            if (m == 1)
            {
                System.out.println("The given string is a
Palindrom");
            }
            else
            {
                System.out.println("The given string is not a
Palindrom");
            }
        }
        catch (Exception e)

```



```
{
    System.out.println("Exception" + e);
}
}
```

Output Exp.5:

Object registered

Print : 1

The given string is a Palindrome