interface Abc{

public default void dis1(){

System.out.println("dis1 default implementation");

}

}

interface Y extends Abc{

public default void dis1(){

System.out.println("dis1 of y");

}

}

class X implements Y{

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

X x= new X();

x.dis1();

}

}

interface Abc{

public default void dis1(){

System.out.println("dis1 default implementation");

}

}

interface Y extends Abc{

public default void dis1(){

System.out.println("dis1 of y");

}

}

class X implements Y,Abc{

public void dis1(){

System.out.println("i am overiding");

}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

X x= new X();

x.dis1();

}

}

interface Abc{

public static void dis1(){

System.out.println("dis1 default implementation");

}

}

class X implements Abc{

public static void dis1(){

System.out.println("i am overiding");

}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

X x= new X();

x.dis1();

X.dis1();

Abc.dis1();

}

}

interface Abc{

public static void dis1(){

System.out.println("dis1 default implementation");

}

}

class X implements Abc{

//@override //we can override static method

public static void dis1(){

System.out.println("i am overiding");

}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

X x= new X();

x.dis1();

X.dis1();

Abc.dis1();

}

}

@FunctionalInterface // manadatory to make your interface has functional interface

interface Abc{

void Abc();// only one method should be abstract method

default void dis1(){}

static void dis2(){}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

}

}

class Outer

{

void dis1(){

System.out.println("outer class dis1 method");}

class Inner{

void dis2(){

System.out.println("inner class dis2 method");}

}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

Outer out = new Outer();

out.dis1();

//Outer.Inner in=new Outer().new Inner(); // one way creating object of inner object

Outer.Inner in1 = out.new Inner();

//in.dis2();

in1.dis2();

}

}

class Outer

{

void dis1(){

System.out.println("outer class dis1 method");}

class Inner{

void dis2(){

System.out.println("inner class dis2 method");}

}

static class Inner1{

void dis3(){

System.out.println("inner class dis3 method");}

}

}

public class Sample2{

public static void main(String[] args)

{

System.out.println("Welcome to java 8");

Outer out = new Outer();

out.dis1();

//Outer.Inner in=new Outer().new Inner(); // one way creating object of inner object

Outer.Inner in1 = out.new Inner();

//in.dis2();

in1.dis2();

Outer.Inner1 in2 =new Outer.Inner1();

in2.dis3();

}

}

interface Abc{

void dis1();

}

public class Sample2{

public static void main(String[] args)

{

Abc a = new Abc(){ // instead of creating another class and implementing that method and we can override..this is inner class.

public void dis1(){

System.out.println("dis1() method override");

}

};

a.dis1();

}

}

@FunctionalInterface

interface Abc{

void dis1();

}

public class Sample2{

public static void main(String[] args)

{

Abc a = new Abc(){ // instead of creating another class and implementing that method and we can override..this is inner class.

public void dis1(){

System.out.println("dis1() method override");

}

};

a.dis1();

//Lambda Expression only for functional interface

Abc o =()->System.out.println("Lamba expresssion override");

o.dis1();

}

}

@FunctionalInterface

interface Abc{

void dis1();

}

interface Emp{

void empDetails(int id, String name,float sal);

}

public class Sample2{

public static void main(String[] args)

{

//Lambda Expression only for functional interface

Abc o =()->System.out.println("Lamba expresssion override");

o.dis1();

//Lambda Expression for parameter method

Emp e=(int i,String name1,float salary1)->

{

System.out.println("Lamba expresssion parameter");

System.out.println("id is"+i);

System.out.println("name is"+name1);

System.out.println("salary is" +salary1);

};

e.empDetails(300,"durga",12000);

}

}

@FunctionalInterface

interface Abc{

void dis1();

}

interface Emp{

void empDetails(int id, String name,float sal);

}

public class Sample2{

public static void main(String[] args)

{

//Lambda Expression only for functional interface

Abc o =()->System.out.println("Lamba expresssion override");

o.dis1();

//Lambda Expression for parameter method

Emp e=(int i,String name1,float salary1)->// without datatype also we can do (i,name1,salary1)

{

System.out.println("Lamba expresssion parameter");

System.out.println("id is"+i);

System.out.println("name is"+name1);

System.out.println("salary is" +salary1);

};

e.empDetails(300,"durga",12000);

}

}

@FunctionalInterface

interface Abc{

void dis1();

}

interface Emp{

void empDetails(int id, String name,float sal);

}

interface Opera{

int add(int x,int y);

}

public class Sample2{

public static void main(String[] args)

{

//lambda Expression of returning value...

Opera op =(a,b)->a+b;

System.out.println(op.add(10,20));

//Lambda Expression only for functional interface

Abc o =()->System.out.println("Lamba expresssion override");

o.dis1();

//Lambda Expression for parameter method

Emp e=(int i,String name1,float salary1)->// without datatype also we can do (i,name1,salary1)

{

System.out.println("Lamba expresssion parameter");

System.out.println("id is"+i);

System.out.println("name is"+name1);

System.out.println("salary is" +salary1);

};

e.empDetails(300,"durga",12000);

}

}

import java.util.\*;

public class Sample2{

public static void main(String[] args)

{

List<Integer> ll =new ArrayList<>();

ll.add(10);

ll.add(20);

ll.add(300);

System.out.println("Before 8");

Iterator<Integer> li = ll.iterator();

while(li.hasNext()){

System.out.println(li.next());

}

System.out.println("After 8 using lambda expression");

//forEach is the method in interface in list.......

// we can use lambda expression for retrieve the data in java 8......

ll.forEach((i)->System.out.println(i));

}

}

import java.util.\*;

public class Sample2{

public static void main(String[] args)

{

List<Integer> ll =new ArrayList<>();

ll.add(9000);

ll.add(150);

ll.add(300);

System.out.println("Before 8");

Iterator<Integer> li = ll.iterator();

while(li.hasNext()){

System.out.println(li.next());

}

System.out.println("before sort");

ll.forEach((i)->System.out.println(i));

Collections.sort(ll); // method in Collections Class ie methods are static

System.out.println("after sort");

ll.forEach((i)->System.out.println(i));

}

}

Demo.main

**package** pack;

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.List;

**public** **class** Demo {

**public** **static** **void** main(String[] args) {

System.***out***.println("Welcome to java training");

Employee e1 = **new** Employee(1,"durga",12000);

Employee e2 = **new** Employee(2,"beni",21000);

Employee e3 = **new** Employee(3,"Sayeeda",17000);

List<Employee> listOfemp = **new** ArrayList<>();

listOfemp.add(e1);

listOfemp.add(e2);

listOfemp.add(e3);

listOfemp.forEach((i)->System.***out***.println(i));

Collections.*sort*(listOfemp);

System.***out***.println("after sorting");

listOfemp.forEach((i)->System.***out***.println(i));

}

}

-------

Employee

**package** pack;

**public** **class** Employee **implements** Comparable<Employee> {

**public** Employee(**int** id, String name, **float** salary) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.salary = salary;

}

**private** **int** id;

**private** String name;

**private** **float** salary;

**public** **int** getId() {

**return** id;

}

**public** **int** compareTo(Employee e) {

**return** e.id-**this**.id;//sort by id desc

**return** **this**.id-e.id;//sort by id in asc

**return** **this**.name.compareTo(e.name);//sort name by asc

**return** e.name.compareTo(**this**.name);//sort name by desc

**return** (**int**)(**this**.salary-e.salary);//sort sal by asc

**return** (**int**)(e.salary-**this**.salary);//sort sal by desc

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **float** getSalary() {

**return** salary;

}

**public** **void** setSalary(**float** salary) {

**this**.salary = salary;

}

**public** **int** hashCode() {

**final** **int** prime = 31;

**int** result = 1;

result = prime \* result + id;

result = prime \* result + ((name == **null**) ? 0 : name.hashCode());

result = prime \* result + Float.*floatToIntBits*(salary);

**return** result;

}

**public** **boolean** equals(Object obj) {

**if** (**this** == obj)

**return** **true**;

**if** (obj == **null**)

**return** **false**;

**if** (getClass() != obj.getClass())

**return** **false**;

Employee other = (Employee) obj;

**if** (id != other.id)

**return** **false**;

**if** (name == **null**) {

**if** (other.name != **null**)

**return** **false**;

} **else** **if** (!name.equals(other.name))

**return** **false**;

**if** (Float.*floatToIntBits*(salary) != Float.*floatToIntBits*(other.salary))

**return** **false**;

**return** **true**;

}

@Override

**public** String toString() {

**return** "Employee [id=" + id + ", name=" + name + ", salary=" + salary

+ "]";

}

}

**package** pack;

**import** java.util.stream.Stream;

**public** **class** StreamDemo {

**public** **static** **void** main(String[] args) {

Integer abc[]= {1,3,5,8,9,345,356,66,554,456};

Stream<Integer> st= Stream.*of*(abc);//creating stream

st.forEach((val)->System.***out***.println(val));// displaying value using lambda expression

st.sorted().forEach((val)->System.***out***.println(val));// sorted order

System.***out***.println(st.count());// find no of elements

}

}

09-03-18

**package** pack;

**import** java.nio.channels.AsynchronousServerSocketChannel;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**import** java.util.List;

**public** **class** StreamCollection {

**public** **static** **void** main(String[] args) {

//List<Employee> listOfEmp = new ArrayList<Employee>();//jdk 1.6

List<Employee> listOfEmp = **new** ArrayList<>();//jdk 1.7

listOfEmp.add(**new** Employee(1,"durga",12000));

listOfEmp.add(**new** Employee(2,"nisha",13000));

listOfEmp.add(**new** Employee(3,"saras",19000));

**float** sum=0;

Iterator<Employee> li =listOfEmp.iterator();

**while**(li.hasNext()) {

Employee emp =li.next();

sum =sum + emp.getSalary();

}

System.***out***.println("sum salary is"+sum);

System.***out***.println("using Stream");

//listOfEmp.stream()------- here we are creating the stream

listOfEmp.stream().forEach(emp->System.***out***.println(emp));

//using stream to get salary (mapToDouble is to find which value we are getting from emp object)

**double** sumOfStream = listOfEmp.stream().mapToDouble(emp->emp.getSalary()).sum();

System.***out***.println(sumOfStream);

//method to get sum of salary in single statement

System.***out***.println(listOfEmp.stream().mapToDouble(emp->emp.getSalary()).sum());

//filter is like if condition

**double** sumOfStream = listOfEmp.stream().filter(emp->emp.getSalary()>12000).mapToDouble(emp->emp.getSalary()).sum();

System.***out***.println(sumOfStream);

//greater than 12000 salary list

listOfEmp.stream().filter(emp->emp.getSalary()>12000).mapToDouble(emp->emp.getSalary()).forEach(emp->System.***out***.println(emp));

//getting max sal

**double** maxsal=listOfEmp.stream().filter(emp->emp.getSalary()>12000).mapToDouble(emp->emp.getSalary()).max().getAsDouble();

System.***out***.println(maxsal);

}

}

Method reference

**package** pack;

**interface** Abc{

**void** dis();

}

**class** Own{

**public** **static** **void** myMethod() {

System.***out***.println("mymethod static implementation");

}

**public** **void** myNonMethod() {

System.***out***.println("mymethod non-static implementation");

}

}

**public** **class** MethodRef {

**public** **static** **void** main(String[] args) {

/\*without implementation we can use separate class and write separete method and with ref we can

\* call the interface method..so that it internally call the that method and excuetes.

\* STATIC METHOD

\*/

Abc o1=Own::*myMethod*;

o1.dis();

/\*

\* NON-Static method

\*/

Own o = **new** Own();

Abc ob =o::myNonMethod;

ob.dis();

}

}

Optional

**package** pack;

**import** java.util.Optional;

**public** **class** OptionalDemo {

**public** **static** **void** main(String[] args) {

Employee emp[]=**new** Employee[10];

emp[0]= **new** Employee();

emp[3]= **new** Employee();

// class Optional checks the null of that objects

Optional<Employee> obj= Optional.*ofNullable*(emp[1]);

**if**(obj.isPresent()) {

System.***out***.println("id is"+emp[0].getId());

} **else** {

System.***out***.println("memory not created");

}

}

}

Date and Time

**package** pack;

**import** java.time.LocalDate;

**import** java.time.LocalDateTime;

**import** java.time.LocalTime;

**import** java.time.Month;

**import** java.time.ZoneId;

**import** java.time.format.DateTimeFormatter;

**import** java.time.zone.ZoneRulesProvider;

**import** java.util.Set;

**public** **class** DateDemo {

**public** **static** **void** main(String[] args) {

//date of ur system

LocalDate ld1= LocalDate.*now*();

System.***out***.println(ld1);

//time of ur system

LocalTime lt1= LocalTime.*now*();

System.***out***.println(lt1);

//date and time of ur system

LocalDateTime ldt1= LocalDateTime.*now*();

System.***out***.println(ldt1);

//Zone id

Set<String> ss=ZoneRulesProvider.*getAvailableZoneIds*();

ss.forEach(val->System.***out***.println(val));

//Zone values time and dates

LocalDateTime dd4 =LocalDateTime.*now*(ZoneId.*of*("Asia/Qatar"));

System.***out***.println(dd4);

//to set date by passing

LocalDate dd5 =LocalDate.*of*(1996, Month.***JULY***, 28);

System.***out***.println(dd5);

//date in format

DateTimeFormatter dtf = DateTimeFormatter.*ofPattern*("dd-MM-YYYY");

LocalDateTime dd6 =LocalDateTime.*now*();

System.***out***.println(dd6.format(dtf));

}

}

Factory method:

…

Employee.java

**package** com;

**public** **class** Employee {

**private** Employee(){

}

**public** **void** display() {

System.***out***.println("Busssiness method");

}

**public** **static** Employee getInstance(**int** code) {

**if**(code==1) {

**return** **new** Employee();

} **else** {

**return** **null**;

}

}

}

…

Factory method:

**package** com;

**public** **class** FactoryMethod {

**public** **static** **void** main(String[] args) {

Employee e=Employee.*getInstance*(1);

e.display();

}

}  
-------------------------------------------------------------------------

Singleton Pattern

…

SingletonClass

**package** com;

**public** **class** SingletonClass {

**private** SingletonClass() {

}

**int** a;

**public** **void** display() {

System.***out***.println("Business method"+a);

}

**static** SingletonClass *sc*= **new** SingletonClass();

**public** **static** SingletonClass getInstance(**int** code) {

**if**(code==1) {

**return** *sc*;

} **else** {

**return** **null**;

}

}

}

…………..

SingletonTest

**package** com;

**public** **class** SingletonTest {

**public** **static** **void** main(String[] args) {

SingletonClass sc=SingletonClass.*getInstance*(1);//creating object by calling the method and getting

sc.a=100;

sc.display();

SingletonClass sc1=SingletonClass.*getInstance*(1);

sc1.display();

}

}

Factor pattern:

**package** com;

**class** Color{

**public** **void** paint()

{

System.***out***.println("normal painting");

}

}

**class** Red **extends** Color{

**public** **void** paint() {

System.***out***.println("REd painting");

}

}

**class** Blue **extends** Color{

**public** **void** paint() {

System.***out***.println("Blue painting");

}

}

**class** Purple **extends** Color{

**public** **void** paint() {

System.***out***.println("purple painting");

}

}

**class** Factory{

**public** Color getInstance(String colorName) {

**if**(colorName.equals("Red")) {

**return** **new** Red();

} **else** **if**(colorName.equals("Blue")) {

**return** **new** Blue();

} **else** **if**(colorName.equals("Purple")) {

**return** **new** Purple();

} **else** {

**return** **null**;

}

}

}

**public** **class** FactoryPattern {

**public** **static** **void** main(String[] args) {

Factory c = **new** Factory();

Color cc=c.getInstance("Red");

cc.paint();

}

}

JDBC CONNECTION

**package** com;

**import** java.sql.\*;

**public** **class** DemoTest {

**public** **static** **void** main(String[] args) {

**try** {

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

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

Statement stmt=con.createStatement();

System.***out***.println("statement created successfully");

//ResultSet rs=stmt.executeQuery("select \* from emp\_table");

//DML Operation

**int** temp = stmt.executeUpdate("insert into emp\_table values(04,'saras',17000)");

**if**(temp>0) {

System.***out***.println("inserted");

} **else** {

System.***out***.println("not inserted");

}

/\*while(rs.next())

System.out.println(rs.getInt("id")+" "+rs.getString(2)+" "+rs.getString(3));

rs.close();

stmt.close();

con.close(); \*/

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**private** **static** **int** executeUpdate(String string) {

// **TODO** Auto-generated method stub

**return** 0;

}

}

User getting input

**package** com;

**import** java.sql.\*;

**import** java.util.Scanner;

**public** **class** DemoTest {

**public** **static** **void** main(String[] args) {

**try** {

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

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

Statement stmt=con.createStatement();

System.***out***.println("statement created successfully");

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("enter id");

**int** id = sc.nextInt();

System.***out***.println("enter name");

String name = sc.next();

System.***out***.println("enter salary");

**float** salary = sc.nextFloat();

**int** temp = stmt.executeUpdate("insert into emp\_table values("+id+",'"+name+"',"+salary+")");

**if**(temp>0) {

System.***out***.println("inserted");

} **else** {

System.***out***.println("not inserted");

}

//ResultSet rs=stmt.executeQuery("select \* from emp\_table");

//DML Operation

/\*int temp = stmt.executeUpdate("insert into emp\_table values(04,'saras',17000)");

if(temp>0) {

System.out.println("inserted");

} else {

System.out.println("not inserted");

}

while(rs.next())

System.out.println(rs.getInt("id")+" "+rs.getString(2)+" "+rs.getString(3));

rs.close();

stmt.close();

con.close(); \*/

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**private** **static** **int** executeUpdate(String string) {

// **TODO** Auto-generated method stub

**return** 0;

}

}

preparedStatement

**package** com;

**import** java.sql.\*;

**import** java.util.Scanner;

**public** **class** DemoTest {

**public** **static** **void** main(String[] args) {

**try** {

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

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

//Statement stmt=con.createStatement();

//System.out.println("statement created successfully");

/\* instead of appending values with + operator and " quotes we can use PreparedStatement.

\*

\*/

PreparedStatement psmt = con.prepareStatement("insert into emp\_table values(?,?,?)");

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("enter id");

**int** id = sc.nextInt();

psmt.setInt(1, id);// we have to set the values with index ie refers to placeholders(?) from left position and values or variable name.

System.***out***.println("enter name");

String name = sc.next();

psmt.setString(2,name);

System.***out***.println("enter salary");

**float** salary = sc.nextFloat();

psmt.setFloat(3, salary);

**int** temp = psmt.executeUpdate();// without this statement record is not inserted

//int temp = stmt.executeUpdate("insert into emp\_table values("+id+",'"+name+"',"+salary+")");

**if**(temp>0) {

System.***out***.println("inserted");

} **else** {

System.***out***.println("not inserted");

}

//ResultSet rs=stmt.executeQuery("select \* from emp\_table");

//DML Operation

/\*int temp = stmt.executeUpdate("insert into emp\_table values(04,'saras',17000)");

if(temp>0) {

System.out.println("inserted");

} else {

System.out.println("not inserted");

}

while(rs.next())

System.out.println(rs.getInt("id")+" "+rs.getString(2)+" "+rs.getString(3));

rs.close();

stmt.close();

con.close(); \*/

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**private** **static** **int** executeUpdate(String string) {

// **TODO** Auto-generated method stub

**return** 0;

}

}

Commit and rollback

**package** com;

**import** java.sql.\*;

**import** java.util.Scanner;

**public** **class** DemoTest {

**public** **static** **void** main(String[] args) {

**try** {

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

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

con.setAutoCommit(**false**);//through java value is inserted means it is autocommitted.

PreparedStatement psmt = con.prepareStatement("insert into emp\_table values(?,?,?)");

psmt.setInt(1, 8);

psmt.setString(2,"subi");

psmt.setFloat(3, 20000);

psmt.executeUpdate();

System.***out***.println("inserted");

con.rollback();

con.commit();

} **catch** (Exception e) {

System.***out***.println(e);

}

}

**private** **static** **int** executeUpdate(String string) {

// **TODO** Auto-generated method stub

**return** 0;

}

}

SERVLET

DEMO.java

**package** com;

**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;

/\*\*

\* Servlet implementation class Demo

\*/

**public** **class** Demo **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** Demo() {

**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());

PrintWriter pw = response.getWriter();

pw.println("Welcome to servlet");

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

LOGIN.HTML

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<a href=*"Demo"*>Click here</a>

<br>

<form action =*"Demo"*>

Username:<input type =*"text"* name=*"user"*><br>

password:<input type =*"password"* name=*"pass"*><br>

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

</form>

</body>

</html>

------------

WEB.XML

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name>ServletProj</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>Demo</display-name>

<servlet-name>Demo</servlet-name>

<servlet-class>com.Demo</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Demo</servlet-name>

<url-pattern>/Demo</url-pattern>

</servlet-mapping>

</web-app>

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<a href=*"Demo"*>Click here</a>

<br>

<form action =*"Demo"*>

Username:<input type =*"text"* name=*"user"*><br>

password:<input type =*"password"* name=*"pass"*><br>

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

</form>

</body>

</html>

-------

Demo.java

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Demo

\*/

**public** **class** Demo **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** Demo() {

**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());

PrintWriter pw = response.getWriter();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

response.setContentType("text/html");

RequestDispatcher rd = request.getRequestDispatcher("Home");

RequestDispatcher rd1 = request.getRequestDispatcher("Login.html");

**if**((name.equals("durga"))&& (pass.equals("123"))){

pw.println("Welcome "+ name +" to servlet");

//rd.forward(request, response);// only target page output

rd.include(request, response);

} **else** {

pw.println("get lost");

rd1.include(request, response);

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

------

Home.java

**package** com;

**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;

/\*\*

\* Servlet implementation class Home

\*/

**public** **class** Home **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** Home() {

**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());

PrintWriter pw = response.getWriter();

pw.println("welcome to home page");

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

------

Web.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name>ServletProj</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>Demo</display-name>

<servlet-name>Demo</servlet-name>

<servlet-class>com.Demo</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Demo</servlet-name>

<url-pattern>/Demo</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>Home</display-name>

<servlet-name>Home</servlet-name>

<servlet-class>com.Home</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Home</servlet-name>

<url-pattern>/Home</url-pattern>

</servlet-mapping>

</web-app>

13-03-2018

Servlet

DemoBAnk

**package** bank;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletConfig;

//import javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** org.apache.catalina.servlet4preview.ServletContext;

/\*\*

\* Servlet implementation class Demo

\*/

**public** **class** DemoBank **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** DemoBank() {

**super**();

// **TODO** Auto-generated constructor stub

}

String Quey;

String DriverName;

**public** **void** init(ServletConfig conf)

{

String Query= conf.getInitParameter("query");

ServletContext sc = (ServletContext) conf.getServletContext();

String DriverName=sc.getInitParameter("Driver");

}

/\*\*

\* **@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());

PrintWriter pw = response.getWriter();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

RequestDispatcher rd = request.getRequestDispatcher("Mainpage");

RequestDispatcher rd1 = request.getRequestDispatcher("LoginPage.html");

**int** flag =0;

//response.setContentType("text/html");

**try** {

Class.*forName*(DriverName);

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

PreparedStatement psmt = con.prepareStatement("Query");

psmt.setString(1, name);

psmt.setString(2, pass);

ResultSet rs = psmt.executeQuery();

**while**(rs.next())

{

String x=rs.getString(1);

System.***out***.println(x);

String y=rs.getString(2);

**if**((x.equals(name))&& y.equals(pass)) {

flag++;

**break**;

}

}

**if**(flag>0) {

System.***out***.println("successfully logged in");

rd.include(request, response);

}

**else** {

System.***out***.println("failed");

rd1.include(request, response);

}

} **catch** (Exception e) {

System.***out***.println(e);

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

------

HomeBank

**package** bank;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class HomeBank

\*/

**public** **class** HomeBank **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** HomeBank() {

**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());

PrintWriter pw = response.getWriter();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

//response.setContentType("text/html");

**try** {

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

System.***out***.println("Driver loaded successfully");

Connection con = DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

System.***out***.println("connected successfully");

PreparedStatement psmt = con.prepareStatement("insert into Bank\_login values(?,?)");

psmt.setString(1, name);

psmt.setString(2, pass);

psmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e);

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

-----

MainPage

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Demo

\*/

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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());

PrintWriter pw = response.getWriter();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

response.setContentType("text/html");

RequestDispatcher rd = request.getRequestDispatcher("Home");

RequestDispatcher rd1 = request.getRequestDispatcher("Login.html");

if((name.equals("durga"))&& (pass.equals("123"))){

pw.println("Welcome "+ name +" to servlet");

//rd.forward(request, response);// only target page output

rd.include(request, response);

} else {

pw.println("get lost");

rd1.include(request, response);

}

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

}

}

---

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>BANKING APPLICATION</title>

</head>

<body>

<form action =*"Demo"*>

<h1 align =*"center"*>LOGIN PAGE</h1>

<h3 align=*"justify"*>

USERNAME:<input type =*"text"* name=*"user"* >

PASSWORD:<input type =*"password"* name=*"pass"*>

</h3>

<h4 align =*"justify"*><input type=*"submit"* value=*"submit"*></h4>

<h4 align=*"justify"*><a href=*"Register.html"*>create account</a></h4>

</form>

</body>

</html>

---

Register.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"HomeBank"*>

<h1 align =*"center"*>LOGIN PAGE</h1>

<h3 align=*"justify"*>

USERNAME:<input type =*"text"* name=*"user"* >

PASSWORD:<input type =*"password"* name=*"pass"*>

</h3>

<h4 align =*"justify"*><input type=*"submit"* value=*"submit"*></h4>

</form>

</body>

----

Web.Xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name>Banking</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<!—servlet context🡪

<context-param>

<param-name>Driver</param-name>

<param-value>oracle.jdbc.driver.OracleDriver</param-value>

</context-param>

<servlet>

<description></description>

<display-name>Demo</display-name>

<servlet-name>Demo</servlet-name>

<servlet-class>bank.DemoBank</servlet-class>

🡨servlet config 🡪

<init-param>

<param-name>query</param-name>

<param-value>select \* from Bank\_login where username like ? and password like ?</param-value>

</init-param>

</servlet>

<servlet-mapping>

<servlet-name>Demo</servlet-name>

<url-pattern>/Demo</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>HomeBank</display-name>

<servlet-name>HomeBank</servlet-name>

<servlet-class>bank.HomeBank</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>HomeBank</servlet-name>

<url-pattern>/HomeBank</url-pattern>

</servlet-mapping>

<servlet>

<description></description>

<display-name>Mainpage</display-name>

<servlet-name>Mainpage</servlet-name>

<servlet-class>bank.Mainpage</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Mainpage</servlet-name>

<url-pattern>/Mainpage</url-pattern>

</servlet-mapping>

</web-app>

JSP:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to HTML page</h1>

<!-- Declarative part(global declaration of variable -->

<%**int** a=10;

**int** b=20;

**int** sum; %>

<!--Scriptlet tag(java coding) -->

<%

sum =a+b;

out.println("Welcome to jsp page");

out.println("sum is"+sum);

%>

<!-- Expression tag(for using html code in some place) -->

<h3>Sum of two numbers<%=a+b %></h3>

<font color=*"purple"*><h1 align = *"center"* >LOGIN </h1></font>

<b>username:<%="durga" %></b>

<b>password:<%="123" %></b>

</body>

</html>

JSP

SignIn.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"Home.jsp"*>

<font color =*"red"*>UserName:<input type =*"text"* name=*"user"*></font>

<font color=*"red"*>Password:<input type=*"password"* name=*"pass"*></font>

<h3 align=*"center"*><input type=*"submit"* value=*"submit"*></h3>

</form>

</body>

</html>

-----

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

String name;

String pass;

%>

<%

name=request.getParameter("user");

pass=request.getParameter("pass");

**if**(name.equals("durga") && pass.equals("123"))

out.println("welcome home"+ name);

**else**

out.println("try once again");

%>

</body>

</html>

NAVIGATING FROM ONE PAGE TO ANOTHER PAGE

SignIn.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"Home.jsp"*>

<font color =*"red"*>UserName:<input type =*"text"* name=*"user"*></font>

<font color=*"red"*>Password:<input type=*"password"* name=*"pass"*></font>

<h3 align=*"center"*><input type=*"submit"* value=*"submit"*></h3>

</form>

</body>

</html>

----

HOME.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

String name;

String pass;

%>

<%

name=request.getParameter("user");

pass=request.getParameter("pass");

/\* we can use request Dispatcher as same servlet

\*\*/

RequestDispatcher rd = request.getRequestDispatcher("JspMain.jsp");

RequestDispatcher rd1 = request.getRequestDispatcher("SignIn.jsp");

**if**(name.equals("durga") && pass.equals("123")){

out.println("successs");

//rd.forward(request,response);

%>

<jsp:forward page=*"JspMain.jsp"*></jsp:forward> //jsp TAG FOR NAVIGATING similar to forward

<%

} **else**{

//rd1.forward(request,response);

out.println("try once again");

%>

<jsp:include page=*"SignIn.jsp"*></jsp:include> //jsp TAG NAVIGATING similar to include

<%

}

%>

</body>

</html>

PASSING THE VALUES FROM ONE PAGE TO ANOTHER PAGE

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action =*"Demo"* method=*"post"*>

UserName:<input type=*"text"* name=*"user"*><br>

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

</form>

</body>

</html>

---

Demo.java

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Demo

\*/

@WebServlet("/Demo")

**public** **class** Demo **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** Demo() {

**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)

\*/

String user;

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

//doGet(request, response);

PrintWriter pw = response.getWriter();

user=request.getParameter("user");

pw.println("user name is"+user);

//to get the value in Home.jsp page

request.setAttribute("ob", user);

RequestDispatcher rd =request.getRequestDispatcher("Home.jsp");

//rd.include(request, response);

//rd.forward(request, response);

//ANOTHER WAY TO REDIRECT WITH RESPONSE OBJECT

response.sendRedirect("Home.jsp");

}

}

---

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to Home Page!!!!!!!!!!!!!!!!!</h1>

<%

//we get value that is stored in ob

String user=(String)request.getAttribute("ob");

out.println("username is"+ user);

%>

</body>

</html>

SESSION TIME

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.util.Date;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class SessionDemo

\*/

@WebServlet("/SessionDemo")

**public** **class** SessionDemo **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** SessionDemo() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

**int** count =0;

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

// **TODO** Auto-generated method stub

//response.getWriter().append("Served at: ").append(request.getContextPath());

PrintWriter pw = response.getWriter();

pw.println("<font size=4>");

pw.println(count);

HttpSession hs =request.getSession();

pw.println("Session id is"+hs.getId());

**if**(hs.isNew()) {

pw.println("<br>New Client");

} **else** {

pw.println("<br>old client");

}

pw.println("<br>Session creation time"+**new** Date(hs.getCreationTime()));

pw.println("<br>Session last access time"+**new** Date(hs.getLastAccessedTime()));

pw.println("<br>Default time"+hs.getMaxInactiveInterval());

hs.setMaxInactiveInterval(600);

pw.println("<br>change time"+**new** Date(hs.getMaxInactiveInterval()));

count++;

pw.println(count);

**if** (count%5==0) {

hs.invalidate();

}

pw.println("</font>");

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

SESSION SCOPE STORING

Demo.java

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Demo

\*/

@WebServlet("/Demo")

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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)

\*/

String user;

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

// TODO Auto-generated method stub

//doGet(request, response);

PrintWriter pw = response.getWriter();

user=request.getParameter("user");

pw.println("user name is"+user);

//to get the value in Home.jsp page

//request.setAttribute("ob", user);

// in the place of redirect we lost the data...so when we need data means it is stored in session scope.

HttpSession hs=request.getSession();

hs.setAttribute("obj", user);

RequestDispatcher rd =request.getRequestDispatcher("Home.jsp");

//rd.include(request, response);

//rd.forward(request, response);

//ANOTHER WAY TO REDIRECT WITH RESPONSE OBJECT

response.sendRedirect("Home.jsp");

}

}

----

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action =*"Demo"* method=*"post"*>

UserName:<input type=*"text"* name=*"user"*><br>

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

</form>

</body>

</html>

-----

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to Home Page!!!!!!!!!!!!!!!!!</h1>

<%

//we get value that is stored in ob

//String user=(String)request.getAttribute("ob");

//Session scope getting value

String user=(String)session.getAttribute("obj");

out.println("username is"+ user);

%>

</body>

</html>

APPLICATION SCOPE:

Demo.java

package com;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Demo

\*/

@WebServlet("/Demo")

public class Demo extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Demo() {

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)

\*/

String user;

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

// TODO Auto-generated method stub

//doGet(request, response);

PrintWriter pw = response.getWriter();

user=request.getParameter("user");

pw.println("user name is"+user);

//to get the value in Home.jsp page

//request.setAttribute("ob", user);

// in the place of redirect we lost the data...so when we need data means it is stored in session scope.

HttpSession hs=request.getSession();

//hs.setAttribute("obj", user);

sc.setAttribute("obj", user);

RequestDispatcher rd =request.getRequestDispatcher("Home.jsp");

//rd.include(request, response);

//rd.forward(request, response);

//ANOTHER WAY TO REDIRECT WITH RESPONSE OBJECT

response.sendRedirect("Home.jsp");

}

ServletContext sc;

// Application Scope using servlet context

@Override

public void init(ServletConfig config) throws ServletException {

// TODO Auto-generated method stub

//super.init(config);

sc=config.getServletContext();

}

}

---

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to Home Page!!!!!!!!!!!!!!!!!</h1>

<%

//we get value that is stored in ob

//String user=(String)request.getAttribute("ob");

//Session scope getting value

//String user=(String)session.getAttribute("obj");

//out.println("username is"+ user);

//Application scope getting value

String user=(String)application.getAttribute("obj");

out.println("username is"+ user);

%>

</body>

</html>

----

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action =*"Demo"* method=*"post"*>

UserName:<input type=*"text"* name=*"user"*><br>

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

</form>

</body>

</html>

14-03-2018

MODEL 1 ARCHIETURE

success

SignIn.jsp ---🡪 SignIn.java(java bean class)-🡪Home.jsp-----------------🡪 jspMain.jsp

-------------------🡪 SignIn.jsp

Failure

SignIn.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"Home.jsp"*>

<font color =*"red"*>UserName:<input type =*"text"* name=*"user"*></font>

<font color=*"red"*>Password:<input type=*"password"* name=*"pass"*></font>

<h3 align=*"center"*><input type=*"submit"* value=*"submit"*></h3>

</form>

</body>

</html>

-----

SignIn.java(variables should same as component in

**package** com;

**public** **class** SignIn {

**private** String username;

**private** String password;

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

// business logic

**public** String checkUser() {

**if**(username.equals("durga") && password.equals("456")) {

**return** "success";

}

**else** {

**return** "failure";

}

}

}

---

Home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"com.SignIn"* %> <!--imported java bean SignIn -->

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%!

String name;

String pass;

%>

<%

name=request.getParameter("user");

pass=request.getParameter("pass");

//Creating object of java bean class

SignIn s=**new** SignIn();

s.setUsername(name); // the values from SignIn page we are setting into java Bean class

s.setPassword(pass);

**if**(s.checkUser().equals("success")){

%>

<jsp:forward page=*"JspMain.jsp"*></jsp:forward>

<%

} **else**{

%>

<jsp:include page=*"SignIn.jsp"*></jsp:include>

<%

}

%>

</body>

</html>

---

(success)

JspMain.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>WARM WELCOME!</h1>

</body>

</html>

Model 2 Archieture

(MVC)

Model -🡪 SignIn.java(java bean and business logic)

View --🡪 SignIn.jsp

Controller --🡪 CheckPage.java(Servlet)

SignIn.java

**package** com;

**public** **class** SignIn {

**private** String username;

**private** String password;

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

// business logic

**public** String checkUser() {

**if**(username.equals("durga") && password.equals("456")) {

**return** "success";

}

**else** {

**return** "failure";

}

}

}

---

SIgnIn.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"CheckPage"* method =*"get"*>

<font color =*"red"*>UserName:<input type =*"text"* name=*"user"*></font>

<font color=*"red"*>Password:<input type=*"password"* name=*"pass"*></font>

<h3 align=*"center"*><input type=*"submit"* value=*"submit"*></h3>

</form>

</body>

</html>

---

CheckPage.java(servlet)

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** com.SignIn;// import statement

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class CheckPage

\*/

@WebServlet("/CheckPage")

**public** **class** CheckPage **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** CheckPage() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

String name;

String pass;

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

// **TODO** Auto-generated method stub

//response.getWriter().append("Served at: ").append(request.getContextPath());

PrintWriter pw = response.getWriter();

SignIn s= **new** SignIn();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

s.setUsername(name);

s.setPassword(pass);

RequestDispatcher rd = request.getRequestDispatcher("JspMain.jsp");

RequestDispatcher rd1= request.getRequestDispatcher("SignIn.jsp");

**if**(s.checkUser().equals("success")) {

pw.println("Correct user");

rd.forward(request, response);

} **else** {

pw.println("Failure");

rd1.forward(request, response);

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

Business Logic in service class

SignIn.java(java bean class)

Model--🡪

SignInService(business logic)

SignIn.java

**package** com;

**public** **class** SignIn {

**private** String username;

**private** String password;

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

}

----

SignInService.java

**package** Service;

**import** com.SignIn;

**public** **class** SignInService {

**public** String checkUser(SignIn s) {

**if**(s.getUsername().equals("durga") && s.getPassword().equals("456")) {

**return** "success";

}

**else** {

**return** "failure";

}

}

}

----

CheckPage.java

**package** com;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** com.SignIn;

**import** Service.SignInService;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class CheckPage

\*/

@WebServlet("/CheckPage")

**public** **class** CheckPage **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** CheckPage() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

String name;

String pass;

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

// **TODO** Auto-generated method stub

//response.getWriter().append("Served at: ").append(request.getContextPath());

PrintWriter pw = response.getWriter();

SignIn s= **new** SignIn();

String name= request.getParameter("user");

String pass= request.getParameter("pass");

s.setUsername(name);

s.setPassword(pass);

SignInService ss = **new** SignInService();

RequestDispatcher rd = request.getRequestDispatcher("JspMain.jsp");

RequestDispatcher rd1= request.getRequestDispatcher("SignIn.jsp");

**if**(ss.checkUser(s).equals("success")) {

pw.println("Correct user");

rd.forward(request, response);

} **else** {

pw.println("Failure");

rd1.forward(request, response);

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

---

SignIn.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"CheckPage"* method =*"get"*>

<font color =*"red"*>UserName:<input type =*"text"* name=*"user"*></font>

<font color=*"red"*>Password:<input type=*"password"* name=*"pass"*></font>

<h3 align=*"center"*><input type=*"submit"* value=*"submit"*></h3>

</form>

</body>

</html>

DAO CONNECTION

SignIn.java(java bean)

Model signInService(Business)

SignInDao.java(databases)

signIn.java

**package** com;

**public** **class** SignIn {

**private** String username;

**private** String password;

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

}

--

signinService.java

**package** Service;

**import** com.SignIn;

**import** Dao.SignInDao;

**public** **class** SignInService {

**public** String checkUser(SignIn s) {

SignInDao sd = **new** SignInDao();

**if**(sd.checkuser(s)) {

**return** "success";

}

**else** {

**return** "failure";

}

}

}

---

SignInDAo.java

**package** Dao;

**import** java.sql.\*;

**import** com.SignIn;

**public** **class** SignInDao {

**public** **boolean** checkuser(SignIn s) {

**try** {

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

Connection con =DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

PreparedStatement psmt = con.prepareStatement("select \* from bank\_login where username like ? and password like ? ");

psmt.setString(1, s.getUsername());

psmt.setString(2, s.getPassword());

ResultSet rs = psmt.executeQuery();

**if**(rs.next()) {

**return** **true**;

}

} **catch** (Exception e) {

System.***out***.println(e);

}

**return** **false**;

}

}

DB CONNECTION

javaBean(SignIn.java)

Service(SignInService.java)

Model DAO(SignInDao.java)

DBconnection(SignInDBCon.java)

SignIn.java

**package** com;

**public** **class** SignIn {

**private** String username;

**private** String password;

**public** String getUsername() {

**return** username;

}

**public** **void** setUsername(String username) {

**this**.username = username;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

}

----

SignInService.java

**package** Service;

**import** com.SignIn;

**import** Dao.SignInDao;

**public** **class** SignInService {

**public** String checkUser(SignIn s) {

SignInDao sd = **new** SignInDao();

**if**(sd.checkuser(s)) {

**return** "success";

}

**else** {

**return** "failure";

}

}

}

--

SignInDao.java

**package** Dao;

**import** java.sql.\*;

**import** com.SignIn;

**import** DB.SignInDBCon;

**public** **class** SignInDao {

**public** **boolean** checkuser(SignIn s) {

**try** {

SignInDBCon sdb = **new** SignInDBCon();

Connection con=sdb.*getDbConnection*();

PreparedStatement psmt =con .prepareStatement("select \* from bank\_login where username like ? and password like ? ");

psmt.setString(1, s.getUsername());

psmt.setString(2, s.getPassword());

ResultSet rs = psmt.executeQuery();

**if**(rs.next()) {

**return** **true**;

}

} **catch** (Exception e) {

System.***out***.println(e);

}

**return** **false**;

}

}

---

SignInDBCon.java

**package** DB;

**import** java.sql.\*;

**public** **class** SignInDBCon {

**static** Connection *con*;

**public** **static** Connection getDbConnection() {

**try** {

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

*con*=DriverManager.*getConnection*("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

} **catch** (Exception e){

System.***out***.println(e);

}

**return** *con*;

}

}

MVC PROJECT  
  
  
 Packages

Bean Resources -🡪 DAO --- -🡪 Service -🡪 Controller -----> JSP

Emp EmpDBConnection--🡪 EmpDAO -🡪 EmpService -🡪 EmpController -🡪 EmpTable.jsp --🡪 FirstOpening.jsp

(javaBean) (Database Connenction) (query) (business logic) (servlet) (jsp)

Resources:

EmpDBConnection:

package Resource;

import java.sql.Connection;

import java.sql.DriverManager;

public class EmpDBCon {

static Connection con;

public static java.sql.Connection getDbConnection() {

try {

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

con = DriverManager.getConnection("jdbc:oracle:thin:@172.25.163.114:1521/hyper2","system","Password123");

} catch(Exception e) {

System.out.println(e);

}

return con;

}

}

DAO:

EmpDAO:

**package** Dao;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.util.ArrayList;

**import** java.util.List;

**import** Bean.Emp;

**import** Resource.EmpDBCon;

**public** **class** EmpDAO {

**public** **static** List getEmpDetails() {

List<Emp> listOfEmp =**new** ArrayList<>();

**try** {

EmpDBCon edb = **new** EmpDBCon();

Connection con= edb.*getDbConnection*();

PreparedStatement pst = con.prepareStatement("Select \* from employee\_dd");

ResultSet rs= pst.executeQuery();

**while**(rs.next()) {

Emp e= **new** Emp();

e.setId(rs.getInt(1));

e.setName(rs.getString(2));

e.setSalary(rs.getFloat(3));

e.setDesignation(rs.getString(4));

listOfEmp.add(e);

}

} **catch** (Exception e) {

System.***out***.println(e);

}

**return** listOfEmp;

}

}

Service:

EmpService:

**package** Service;

**import** java.util.Iterator;

**import** java.util.List;

**import** Bean.Emp;

**import** Dao.EmpDAO;

**public** **class** EmpService {

**public** **static** List getBonus() {

EmpDAO ed = **new** EmpDAO();

List lst = ed.*getEmpDetails*();

Iterator<Emp> i = lst.iterator();

**float** Salary = 0;

**while**(i.hasNext())

{

Emp emp= i.next();

**if**(emp.getDesignation().equals("manager")) {

Salary =emp.getSalary()+10000;

emp.setSalary(Salary);

} **else** **if**(emp.getDesignation().equals("programmer")) {

Salary = emp.getSalary()+5000;

emp.setSalary(Salary);

} **else** {

Salary =emp.getSalary()+3000;

emp.setSalary(Salary);

}

}

**return** lst;

}

}

Controller:

EmpController:

**package** Controller;

**import** java.io.IOException;

**import** java.util.List;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**import** Service.EmpService;

/\*\*

\* Servlet implementation class EmpController

\*/

@WebServlet("/EmpController")

**public** **class** EmpController **extends** HttpServlet {

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

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** EmpController() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

EmpService es = **new** EmpService();

List l = es.*getBonus*();

HttpSession hs=request.getSession();

hs.setAttribute("ob", l);

RequestDispatcher rd = request.getRequestDispatcher("EmpTable.jsp");

rd.forward(request, response);

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

Jsp:

FirstOpening.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<form action =*"EmpTable.jsp"*>

Username:<input type =*"text"* name=*"user"*>

Password:<input type=*"password"* name=*"pass"*>

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

</form>

</body>

</html>

Jsp:

EmpTable.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

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

<%@ page import=*"Bean.Emp"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>EMPLOYEE TABLE</h1>

<%

List l=(List)session.getAttribute("ob");

Iterator i = l.iterator();

%>

<table border=*1* cellpadding=*0*>

<tr>

<td>EmpId</td>

<td>EmpName</td>

<td>EmpSalary</td>

<td>EmpDesignation</td>

</tr>

<%

**while**(i.hasNext())

{

Emp emp = (Emp)i.next();

%>

<tr>

<td> <%=emp.getId() %></td>

<td> <%=emp.getName() %></td>

<td> <%=emp.getSalary() %></td>

<td> <%=emp.getDesignation() %></td>

</tr>

<%

}

%>

</table>

</body>

</html>

19-03-2018

EJB:

STATELESS ::::

SERVER SIDE:

FOLDER:STATELESSDEMO

PACKAGE:COM.HEXA.SERVICE

INTERESTSERVICE.java(session bean class)

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package statelessclient2;

import com.hexa.service.InterestSerRemote;

import java.util.Properties;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.naming.NamingException;

/\*\*

\*

\* @author Hvuser

\*/

public class StatelessClient2 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws NamingException {

// TODO code application logic here

System.out.println("client started");

Properties pros = new Properties();

pros.setProperty(Context.INITIAL\_CONTEXT\_FACTORY, "com.sun.enterprise.naming.SerialInitContextFactory");

pros.setProperty("org.omg.CORBA.ORBInitialHost","localhost");

pros.setProperty("org.omg.CORBA.ORBInitialPort","3700");

Context ctx = new InitialContext(pros);

InterestSerRemote ser= (InterestSerRemote)ctx.lookup("java:global/StatelessDemo/interestbean1!com.hexa.service.InterestSerRemote");

double si= ser.calcSimple(5000,2,2.5f);

double ci= ser.calcCompound(5000,2,2.5f);

System.out.println(si);

System.out.println(ci);

}

}

----

INTERESTSERREMOTE.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface InterestSerRemote {

double calcSimple(double p, int years,float rate);

double calcCompound(double p, int years,float rate);

}

------

CLIENT SERVICE(JAVA CLASS)

FOLDER:STATELESSCLIENT::

PACKAGE:STATELESSCLIENT

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package statelessclient2;

import com.hexa.service.InterestSerRemote;

import java.util.Properties;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.naming.NamingException;

/\*\*

\*

\* @author Hvuser

\*/

public class StatelessClient2 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws NamingException {

// TODO code application logic here

System.out.println("client started");

Properties pros = new Properties();

pros.setProperty(Context.INITIAL\_CONTEXT\_FACTORY, "com.sun.enterprise.naming.SerialInitContextFactory");

pros.setProperty("org.omg.CORBA.ORBInitialHost","localhost");

pros.setProperty("org.omg.CORBA.ORBInitialPort","3700");

Context ctx = new InitialContext(pros);

InterestSerRemote ser= (InterestSerRemote)ctx.lookup("java:global/StatelessDemo/interestbean1!com.hexa.service.InterestSerRemote");

double si= ser.calcSimple(5000,2,2.5f);

double ci= ser.calcCompound(5000,2,2.5f);

System.out.println(si);

System.out.println(ci);

}

}

----

INTERESTREMOTE.java:

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface InterestSerRemote {

double calcSimple(double p, int years,float rate);

double calcCompound(double p, int years,float rate);

}

STATELESS EXAMPLE:

ConvRemote.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface ConRemote {

double FahrntoCelcius(int x);

}

-----

ConvService:

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.annotation.PostConstruct;

import javax.annotation.PreDestroy;

import javax.ejb.Stateless;

import javax.ejb.LocalBean;

/\*\*

\*

\* @author Hvuser

\*/

@Stateless(name="Convbean1", mappedName="Convbean2")

public class ConvService implements ConRemote{

// Add business logic below. (Right-click in editor and choose

// "Insert Code > Add Business Method")

public ConvService(){

System.out.println("Session -bean constructor");

}

@PostConstruct

public void myinit(){

System.out.println("post constructor");

}

@PreDestroy

public void mydestroy()

{

System.out.println("pre destroy");

}

@Override

public double FahrntoCelcius(int x){

return ((x -32)\*5/9);

}

}

---

Client SIDE:

STATELESSCLIENT

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package statelessclient2;

import com.hexa.service.ConRemote;

import java.util.Properties;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.naming.NamingException;

/\*\*

\*

\* @author Hvuser

\*/

public class StatelessClient {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws NamingException{

System.out.println("client started");

Properties pros = new Properties();

pros.setProperty(Context.INITIAL\_CONTEXT\_FACTORY, "com.sun.enterprise.naming.SerialInitContextFactory");

pros.setProperty("org.omg.CORBA.ORBInitialHost","localhost");

pros.setProperty("org.omg.CORBA.ORBInitialPort","3700");

Context ctx = new InitialContext(pros);

ConRemote cr= (ConRemote)ctx.lookup("java:global/ConversionProject/Convbean1");

double temp = cr.FahrntoCelcius(100);

System.out.println(temp);

}

}

---

/\*

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\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface ConRemote {

double FahrntoCelcius(int x);

}

20-03-2018

StateFul Session:

SERVER SIDE:

STATEFULBEAN(SESSION BEAN)

Package:

Com.hexa.Service

INTERESTBEAN.JAVA(class)

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.annotation.PostConstruct;

import javax.annotation.PreDestroy;

import javax.ejb.Stateful;

import javax.ejb.LocalBean;

import javax.ejb.PostActivate;

import javax.ejb.PrePassivate;

import javax.ejb.Remote;

import javax.ejb.Remove;

/\*\*

\*

\* @author Hvuser

\*/

@Stateful(name="ibean1", mappedName="ibean2")

public class InterestBean implements InterestRemote {

private double amt;

private int years;

private float rate;

private String bname;

private static int i;

public InterestBean(){

bname="hexa"+i;

i++;

System.out.println("constructor fired");

}

@PostConstruct

public void myinit(){

System.out.println("post Constructor");

}

@PreDestroy

public void mydestroy(){

System.out.println("pre destroy");

}

@PrePassivate

public void mypassivate(){

System.out.println("pre passivate");

}

@PostActivate

public void myacive(){

System.out.println(" post activate");

}

@Override

public void setData(double amt, int years, float rate) {

this.amt=amt;

this.rate=rate;

this.years=years;

}

@Override

public double calcSimple() {

return amt\*years\*rate/100;

}

@Override

public double calcCompound() {

double ci = amt\*Math.pow((1+rate)/100,years)- amt;

return ci;

}

@Override

@Remove

public void invalidate() {

System.out.println("bean is yet to removed");

}

@Override

public String getBname() {

return bname;

}

}

---

INTERESTREMOTE.java(INTERFACE)

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface InterestRemote {

void setData(double amt, int years,float rate);

double calcSimple();

double calcCompound();

void invalidate();

String getBname();

}

-------------

CLIENT SIDE:

STATEFULBEANCLIENT.JAVA  
PACKAGE:

Com.hexa.service

INTERESTREMOTE.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface InterestRemote {

void setData(double amt, int years,float rate);

double calcSimple();

double calcCompound();

void invalidate();

String getBname();

}

---

STATEFULCLIENT PACKAGE:

StatefulClient.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.ejb.Remote;

/\*\*

\*

\* @author Hvuser

\*/

@Remote

public interface InterestRemote {

void setData(double amt, int years,float rate);

double calcSimple();

double calcCompound();

void invalidate();

String getBname();

}

JSM MESSAGER;(Stateless Bean)

FOLDER: StatelessJmsSender (SESSION BEAN)

PACKAGE: com.hexa.service

EMP.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import java.io.Serializable;

/\*\*

\*

\* @author Hvuser

\*/

public class Emp implements Serializable{

private int eid;

private String ename;

public Emp(){

}

public int getEid() {

return eid;

}

public void setEid(int eid) {

this.eid = eid;

}

public String getEname() {

return ename;

}

public void setEname(String ename) {

this.ename = ename;

}

}

---

JmsSendRemote.java

package com.hexa.service;

import javax.ejb.Remote;

@Remote

public interface JmsSendRemote {

public String sendMsg(String msg);

//public String sendMsg2(int eid,String ename);

public String sendMsg2(Emp emp);

}

---

JmsSenderBean.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import javax.annotation.Resource;

import javax.ejb.Stateless;

import javax.ejb.LocalBean;

import javax.jms.Connection;

import javax.jms.ConnectionFactory;

import javax.jms.MessageProducer;

import javax.jms.ObjectMessage;

import javax.jms.Queue;

import javax.jms.Session;

import javax.jms.TextMessage;

/\*\*

\*

\* @author Hvuser

\*/

@Stateless(name="jbean1", mappedName="jbean2")

public class JmsSenderBean implements JmsSendRemote{

@Resource(mappedName="java:comp/DefaultJMSConnectionFactory")

private ConnectionFactory cf;

@Resource(mappedName="myqueue")

private Queue que;

@Override

public String sendMsg(String msg) {

try{

Connection conn=cf.createConnection();

Session sess = conn.createSession();

MessageProducer prod = sess.createProducer(que);

TextMessage tm = sess.createTextMessage(msg);

prod.send(tm);

sess.close();

conn.close();

return "your message is produced to queue";

} catch(Exception ex){

System.out.println(ex.getMessage());

return "your message is not produced";

}

}

@Override

public String sendMsg2(Emp emp) {

try{

Connection conn=cf.createConnection();

Session sess = conn.createSession();

MessageProducer prod = sess.createProducer(que);

/\* Emp emp = new Emp();

emp.setEid(eid);

emp.setEname(ename);\*/

ObjectMessage mm = sess.createObjectMessage(emp);

prod.send(mm);

sess.close();

conn.close();

return "your message is produced to queue";

} catch(Exception ex){

System.out.println(ex.getMessage());

return "your message is not produced";

}

}

}

---

FOLDER: MdbDemo (SESSION BEAN)

Package: com.hexa.service

Emp.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import java.io.Serializable;

/\*\*

\*

\* @author Hvuser

\*/

public class Emp implements Serializable{

private int eid;

private String ename;

public Emp(){

}

public int getEid() {

return eid;

}

public void setEid(int eid) {

this.eid = eid;

}

public String getEname() {

return ename;

}

public void setEname(String ename) {

this.ename = ename;

}

}

---

MdbDemo1

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import static com.sun.org.apache.bcel.internal.Repository.instanceOf;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.ejb.ActivationConfigProperty;

import javax.ejb.MessageDriven;

import javax.jms.JMSException;

import javax.jms.Message;

import javax.jms.MessageListener;

import javax.jms.ObjectMessage;

import javax.jms.TextMessage;

/\*\*

\*

\* @author Hvuser

\*/

@MessageDriven(mappedName="mbean1",activationConfig = {

@ActivationConfigProperty(propertyName = "destinationLookup", propertyValue = "myqueue"),

@ActivationConfigProperty(propertyName = "destinationType", propertyValue = "javax.jms.Queue")

})

public class MdbDemo1 implements MessageListener {

public MdbDemo1() {

}

@Override

public void onMessage(Message message) {

try {

if(message instanceof TextMessage) {

TextMessage tm = (TextMessage)message;

System.out.println("received from queue"+tm.getText());

} else{

ObjectMessage om =(ObjectMessage)message;

Emp emp = (Emp)om.getObject();

System.out.println("received" +emp.getEid() +emp.getEname());

}

} catch (JMSException ex) {

System.out.println(ex.getMessage());

}

}

}

----

STATELESSCLIENT (JAVA CLASS)

FOLDER:STATELESSCLIENT

JMSSENDREMOTE.JAVA

PACKAGE: com.hexa.service

package com.hexa.service;

import javax.ejb.Remote;

@Remote

public interface JmsSendRemote {

public String sendMsg(String msg);

public String sendMsg2(Emp emp);

}

---

EMP.java

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.hexa.service;

import java.io.Serializable;

/\*\*

\*

\* @author Hvuser

\*/

public class Emp implements Serializable{

private int eid;

private String ename;

public Emp(){

}

public int getEid() {

return eid;

}

public void setEid(int eid) {

this.eid = eid;

}

public String getEname() {

return ename;

}

public void setEname(String ename) {

this.ename = ename;

}

}

-----

FOLDER:STATELESSCLIENT

PACKAGE:STATELESSCLIENT

JMSSENDCLIENT.JAVA

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package statelessclient2;

import com.hexa.service.Emp;

import com.hexa.service.InterestSerRemote;

import com.hexa.service.JmsSendRemote;

import java.util.Properties;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.naming.NamingException;

/\*\*

\*

\* @author Hvuser

\*/

public class JmsSendClient {

public static void main(String []args ) throws NamingException{

System.out.println("client started");

Properties pros = new Properties();

pros.setProperty(Context.INITIAL\_CONTEXT\_FACTORY, "com.sun.enterprise.naming.SerialInitContextFactory");

pros.setProperty("org.omg.CORBA.ORBInitialHost","localhost");

pros.setProperty("org.omg.CORBA.ORBInitialPort","3700");

Context ctx = new InitialContext(pros);

JmsSendRemote ser = (JmsSendRemote)ctx.lookup("jbean2");

System.out.println(ser.sendMsg("Hello Java Coders"));

Emp emp =new Emp();

emp.setEid(1001);

emp.setEname("durga");

System.out.println(ser.sendMsg2(emp));

}

}