

# LAB TEST ①

## JAVA 8 J2EE

①

S-06-2020

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④ Write a java Program using swings to validate user login information using dialog boxes. Once validated, allow the user to enter the customer id, if the person is a new customer, else check whether the customer exists in a collection and obtain the customer id. The customer id can be obtained given a mobile number. Allow the user to enter the item purchased by giving the item name and the total cost should appear in the corresponding GUI components. Using option dialog box, indicate the types of discount available for the customer. On clicking on the print button, print the details in information dialog box.

### PROGRAM

```
import java.awt.event.*;  
import java.util.*;  
import javax.swing.*;  
  
public class UserLogin {  
    HashMap<Long, Integer> hm = new HashMap<Long, Integer>();  
    static ArrayList<ItemDetails> all-items = new ArrayList<ItemDetails>();  
  
    JFrame j1, j2;  
    JFrame j11, j12, j13, j14, j15, j16;  
    JButton display-item, check;
```

TextField cid, phone, itemid, quan, itemname, itemc ;

②

void add-collection()

{

hm.put (9887667887L, 123);

hm.put (7665436788L, 232);

hm.put (647485869L, 456);

}

int check-collection (Long val)

{

add-collection ();

if (hm.containsKey (val)

return hm.get (val);

else

return -1;

}

User Login () {

this.j1 = new JFrame ("Customer information");

this.j2 = new JFrame ("Customer information");

this.j12 = new JLabel ("Enter customer id");

this.cid = new TextField (10);

this.j12 = new JLabel ("Enter mobile number");

this.phone = new TextField (12);

this.check = new JButton ("Check phone");

this.j13 = new JLabel ("Enter item id");

this.itemid = new TextField (10);

this.j14 = new JLabel ("Enter quantity brought:");

this.quan = new TextField (4);

this.j15 = new JLabel ("Item name");

this.itemname = new TextField (30);

③

```

this.jl6 = new JLabel ("Item cost");
this.itemc = new JTextField (4);
this.display-item = new JButton ("Item Details");
String uname = JOptionPane.showInputDialog (null, "Enter username");
String passwd = JOptionPane.showInputDialog (null, "Enter password");
if (uname.equals ("uname@gmail.com") && passwd.equals ("pass"))
{

```

```

JPanel jp = new JPanel();

```

```

jp.add = new JPanel()

```

```

jp.add (jl2);

```

```

jp.add (phone);

```

```

jp.add (check);

```

```

jl.add (jp);

```

```

jl.setSize (200, 200);

```

```

jl.setVisible (true);

```

```

check.addActionListener (new ActionListener () {

```

```

    public void actionPerformed (ActionEvent evt) {

```

```

        jl.setVisible (false);

```

```

        JPanel jp = new JPanel();

```

```

        jp.add (jl1);

```

```

        jp.add (cid);

```

```

        jp.add (jl3);

```

```

        jp.add (itemid);

```

```

        jp.add (jl4);

```

```

        jp.add (qnan);

```

```

        jp.add (display-item);

```

```

        jp.add (jl5);

```

```

        jp.add (itemname);

```



(4)

jp.add (j26);

jp.add (itemc);

j2. add (jp);

// check collection

int v = check-collection (Long.parseLong (phone.getText (1)));

cid.setText (Integer.toString(v));

if (v == -1)

{

String cid1 = JOptionPane.showInputDialog (null, "Enter  
customer id");

cid.setText (cid1);

}

j2.setVisible (true);

{

});

{

else

JOptionPane.showMessageDialog (null, "Invalid details Please run the  
code once again");

display-item.addActionListener (new ActionListener() {

public void actionPerformed (ActionEvent evt) {

int v1 = Integer.parseInt (itemid.getText (1));

int qty = Integer.parseInt (quan.getText ());

check-item (v1, qty);

{

});

{

(5)

```
void checkItem(int id, int qty)
```

```
{
```

```
    for (ItemDetails item : at items)
```

```
    {
```

```
        if (item.item_id == id)
```

```
        { item.name.setText(item.item_name);
```

```
          item.c.setText(Float.toString(item.cost * qty));
```

```
        }
```

```
    }
```

```
}
```

```
public static void main (String args[])
```

```
{
```

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

```
    for (for int i=0; i<3; i++)
```

```
    {
```

```
        System.out.println ("Enter item id");
```

```
        int id = Integer.parseInt (sc.nextLine());
```

```
        System.out.println ("Enter item name");
```

```
        String item_name = sc.nextLine();
```

```
        System.out.println ("Enter item cost");
```

```
        float cost = Float.parseFloat (sc.nextLine());
```

```
        ItemDetails it = new ItemDetails (id, item_name, cost);
```

```
        at items.add(it);
```

```
    }
```

```
    UserLogin ul = new UserLogin();
```

```
}
```

```
}
```

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```
class ItemDetails{
```

```
int item_id;
```

```
String item_name;
```

```
float cost;
```

```
ItemDetails(int it, String iname, float c)
```

```
{ item_id = it;
```

```
item_name = iname;
```

```
cost = c;
```

```
}
```

```
public String toString()
```

```
{
```

```
return item_id + " " + item_name + " " + cost + " ";
```

```
}
```

OUTPUT:-

item id	<input type="text"/>	cost	<input type="text"/>	<input type="button" value="add"/>	<input type="button" value="finish"/>
---------	----------------------	------	----------------------	------------------------------------	---------------------------------------

After finishing finish

Enter username	<input type="text"/>	Enter password	<input type="text"/>	<input type="button" value="Login"/>
----------------	----------------------	----------------	----------------------	--------------------------------------

After entering correct details.

Enter Customer id	<input type="text"/>	Enter phone number	<input type="text"/>	<input type="button" value="check"/>
-------------------	----------------------	--------------------	----------------------	--------------------------------------

If customer id and phone number is valid then :

DISCOUNT	X
DISCOUNT	
<input type="text" value="50%"/>	<input type="text" value="70%"/>

After clicking discount

Enter item id

Enter quantity

item id:

Total amount:



S-06-20

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(10) ~~10~~ Write a program using JSP that helps a student to calculate the income tax on various annual incomes that he will be earning when he gets a job.

(a) Login.html will call dataGphtre.jsp that should do the following:

(i) Use Java Collections to make a list void users and facilitate user login functionality.

(ii) Give personalized welcome message and display today's data.

(iii) Have a Text Entry with label 'Name' to enter the name of the user.

(iv) Give a list of Organizations to choose 'Place of work'.

(v) Provide a Male or female option to choose the 'Gender'.

(vi) Have a Text Entry with label 'Annual Income'.

(vii) Give a submit button reading 'Calculate Tax'.

(b) CalculateTax.jsp must calculate the interest based on the following business rules:

(i) Salary below 1,00,000 shall not have income-tax.

(ii) Calculate 15% tax on 1,00,001 - 5,00,000.

(iii) Calculate 20% on 5,00,001 onwards.



## DataCapture.jsp

```
<!.@ page import = "java.util.*" ./.>
<!.@ page import = "java.io.*" ./.>
<!.@ page language = "java" contentType = "text/html; charset=UTF-8"
    pageEncoding = "UTF-8" ./.>

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

<html>
<head>
<meta http-equiv = "Content-Type" content = "text/html; charset =
    UTF-8" >
<title> ITC </title>
</head>
<body>
<!.
    HashMap<String, String> hm = new HashMap<String, String>();
    hm.put ("name1", "pass1");
    hm.put ("name2", "pass2");
    String name = request.getParameter ("name");
    String pass = request.getParameter ("pass");
    PrintWriter pout = response.getWriter();
    if (hm.containsKey(name) && pass.equals (hm.get(name))) {
        pout.println ("welcome" + name + "\n");
        pout.println (new Date());
    }
%>
```

```
<form action = "CalculateTax.jsp" method = "get">
```

```
  Name : <input type = "text" name = "name">
```

```
  Profession <select name = "Prof">
```

```
    <option> Engineer </option>
```

```
</select> <input type = "text" name = "gender">
```

```
  <option> Male </option>
```

```
  <option> Female </option>
```

```
</select>
```

```
  Annual Income : <input type = "text" name = "salary">
```

```
  Calculate Tax <input type = "submit">
```

```
</form>
```

```
<!--
```

```
  & else ?
```

```
-->
```

```
<jsp:forward page = "login.html"> </jsp:forward>
```

```
<!--
```

```
-->
```

```
</body>
```

```
</html>
```

### CalculateTax.jsp

```
<!--@page import = "java.io.*" -->
```

```
<!--@page language = "java" contentType = "text/html"; charset = UTF-8
```

```
pageEncoding = "UTF-8" -->
```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional" <sup>11</sup>  
EN "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title> TITLE </title>

</head>

<body>

<!--

PrintWriter out = response.getWriter();

int income = Integer.parseInt(request.getParameter("Salary"));

double tax = 0;

if (income <= 100000) {

{

if (income > 100000 && income < 500000) {

tax = (income - 100000) \* 0.15;

{

if (income > 500000) {

tax = (income - 500000) \* 0.20 + 400000 \* 0.15;

{

out.print(tax);

-->

</body>

</html>



index.html

&lt;!DOCTYPE html&gt;

&lt;html&gt;

&lt;head&gt;

&lt;meta charset = "UTF-8"&gt;

&lt;title&gt;TITLE &lt;/title&gt;

&lt;/head&gt;

&lt;body&gt;

&lt;form action = "DataCapture.jsp" method = "post"&gt;

Name: &lt;input type = "text" name = "name"&gt;

Password : &lt;input type = "text" name = "pass"&gt;

&lt;input type = "submit"&gt;

&lt;/form&gt;

&lt;/body&gt;

&lt;/html&gt;

OUTPUT:-

Name:	<input type="text" value="name1"/>
password:	<input type="text" value="pass1"/>
<input type="button" value="submit"/>	

Welcome name Mon May 31 14:39:58 RS5	
Name:	<input type="text" value="Pavan"/> 2020
Profession:	<input type="text" value="doctor"/> v
Gender :	<input type="text" value="Male"/> v
Annual Income	<input type="text" value="1000000"/>
<input type="button" value="Calculate"/>	

Tax : 7500