

J.N.T.U. College of Engineering Anantapur.

Problem statement: write a java program that import and use the wer destined packages.

source code!

Gaceting mypackage;

public class Gree tings

a public vord saythellor)

& System.out.pointln ("Hello from the Geetings , class in my package (");

Main programs

import mypackage. Goeeting; public class Mampaogram

a public Static void main (String angs ())

Greeting greeting = new Greeting(); greeting. Say Hello();

Compile package:

Javac mypackage | Greeting gava

Compile the main program

Javac Mainfrogram. Java Run the program

Java Mainprogram

Output! Javamaun programa

Hello Java the greeting class in mypackage!



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Problem Statement: wathout writing any code, build a Gul that display text in label and image I nan Imagriew (use Javafx)

Step by step Design outline for JavaFx GUI

- 1. Create a Main window (Stage):
 - · The main window (stage) will contain a layout pane to aganize the u components.
- 2. use a layout pane (VBOX):
 - · A VBOX (vortical box) is a suitable layout penne to Stack components vertically.
 - · Set spacing and alignment properties on the VBox to control the arrangement of the label and image

3- Add a label :-

- · place a label at the top of the v Box to display texto
- , set the text content of the label, such as " welcome to gavafx!" or any other text.

Add an Imageview:

- · Below the label, add an image view to display an image
- . Set the image view properties such as fitwidth, fiftheight, or preserve Rato to control how the image appears.
- . use an image object (loaded from a URL or five path) to set the imagericu



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· Add the VBOX (with the later and image view) to 5. setup the scene and Display:

· Display the stage with the scene.

visual layout:

1. JavaFx Stage 1 Label: "welcome!" | [[mage view]] (Display image)

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problem statement! Build a Tip Calculator app using several Javafx Components and learn how to nespond to user interactions with qui

step by step Design and Functionality outline;

1. setup the main stage and scene:

use a visox layout to stack elements vertically setting spacing and alignment for a clean look.

- create the us components;
 - · labels: prioride text prompts for each field like " Enter Bill Amount" and select TIP percentage".
 - ' Text Field: Allow users to input the bill amount
 - · ComboBox: offer a disposoun with different tip percentages (eg, 10%, 15%, 20%)
 - " Button; A " calculate" button to compute the total
 - · Result label: Display the calculated tip amount and total cost
- 3. Add event Handling:
 - · use event handling for the "calculate" button to perform the calculation based on well input and Selection
 - · parse input from the textifield and combobox calculate the tip and total adisplay the results in the result laber.
- 4. Error Handling:

Handle invalid inputs Ceg., non-neumaric input for the bill amount) to avoid application & cashes.

code structure: 1. Layout & Design · Stage: The moun window where the components will be displayed. VBox: used to stack components with spacing · HiBoxes: - Mested within the VBox for organizing Components horizontally. eg: - label + Textfield in one row. · Label: " Enter Bill Amount", " select tip percentage" 2- Component List " trp Amount", "Total Amount", · Textfield: For entering the bill amount · Combo Box: For selecting the tip percentage " Button: " calculate " button to perform the · Result label: to display the tip amount and total amount 3. Event Handling logic: Retrive the entered bill amount from the · Retnieve the selected tip percentage from the · calculate the tip by multiplying the bill amount with the selected percentage. · calculate the total by adding the tip to the Display the calculated tip and total in the

Result label,

County (County)

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visual layout of the tip calculator App.

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```
Problem Statement: wonite a java program that connects to
data base using JOBC
Source code :
    import java sql. Connection;
   impost Java. Sql. Driver Nanager;
    import java. Sql. SOLException;
   public class Database Connection Example
  € public Static void main (String argscs)
      { String url = "idbc: mysq/1: // localhost: 3306 | testable;
           String user = "root";
            String passwood = " your passwood".
            Connection connection = null;
               Connection = Doniver Manager get Connection
          tryd
                                  (ust, user, parsond);
              System. out. println ("patabase connection
                                    Succe sifully. ");
            4
          catch (SQLException)
              System out print In ("failed to connect to
            the database ");
         y e printstackTrace();
       finally
                    if ( connection | = null)
                           Connection . clase();
                         System-out-point In ( + Database
                                      Connection closed );
```



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catch (SQLException ex)

f ex. pount StrackTrace ();

y

output:

rum strut Connection:

Successful Connection:

Database Connection Successful.

Database Connection Closed

failed connection:

Communications link failure

The last packet sent successfully to the server coas o milliseconds ago. The drives has not recieved any packets from the serves at----



prepared Statement. setString (3, " software Engineering)

ant nous Inserted: prepared statement executupdates;

of (sow Inserted >0)

System. out. pointin (" A new employee was inserted successfully 127 Catch (SQLException e) System. Gut. printin ("Data base error occurred") e. print Stack Trace(); finally Ty { If (prepared Statement != null) prepared Statement. Pf (Connection 1= NULL) Connection. Closers System.out pount in (" patabase Connection catch (salexception ex) f ex. point stack Trace (); و و و و output! Connected to the database A new employee was invested successfully natabase Connection Closed

```
posoblem statement: would a java program to connect to a
database using JD13c and delete values from 97.
source code -
    import java. sql. Connection;
     import java. Sq. Doiver Manager;
    import java. sql. PrepareStatement;
    import Java. Sql. SQLException;
    public class Database Delete Example
       private static final string DB-URL =
      "jdbc: mysq1:11 local host: 3306/your-rdatabase_name"
      private static final String USERNAME = "your-username"
      posivate static final string PASSWORD = "Yourpassword"
      public static void main (string[] angs)
        Connection Connection = null;
         Prepared Statement prepared statement = nulls
         try &
             Connection = Driver Homages get Connection (DBURL,
                          WERNAME, PASSWORD);
       System.out. println ("Connected to the database
                                       Succe sstully. ");
       String sal = "DELETE FROM your-table - name
                WHERE Column-name = ? ";
```

Prepared Statement = Connection. prepared Statementary Prepared Statement-Set String (1, "value-to-delete"); int rows Affected = Preparestalement execute opdatecz System.out. pount in (now Affected + " rows) deleted in

Date

```
catch (COLEXREPTION c)

{ e.pointStackTrace();
}

Finally {

try {

If (prepared statement ! = null)

prepared Statement. (lose 1);

If (connection! = null)

connection. (lose 1);

}

cutch (SQLEXREPTION e)

{

e.pointStackTrace();

y
```

connected to the database successfully (sower) deleted