Purpose   To build a well-documented Java
application focusing on GUI usage and
development.

Requirements

Create a GUI application that assists a user buy skateboard components to construct
a custom skateboard.

Step 1: Understand the requirements.

The skate shop sells the skateboard products listed in the following table:

Decks	Truck Assemblies	Wheels
The Master Thrasher $40	7.75 inch axle $35	51 mm $20
The Dictator $45	8 inch axle $40	55 mm $22
The Street King $50	8.5 inch axle $45	58 mm $24
The Judge $60		61 mm $28

In addition, the Skate Shop sells the following miscellaneous products and services:

- Grip Tape: $10
- Bearings: $30
- Riser Pads: $2
- Nuts & Bolts kit: $3
- Board shorts: $38
- T-Shirts: $21
- Band-Aids: $5

Create an application that allows the user to select one deck, one truck assembly, and
one wheel set from either list components or combo boxes. The application should also
have a list component that allows the users to select one or more miscellaneous
products. The application should display the subtotal, the amount of sales tax (based on
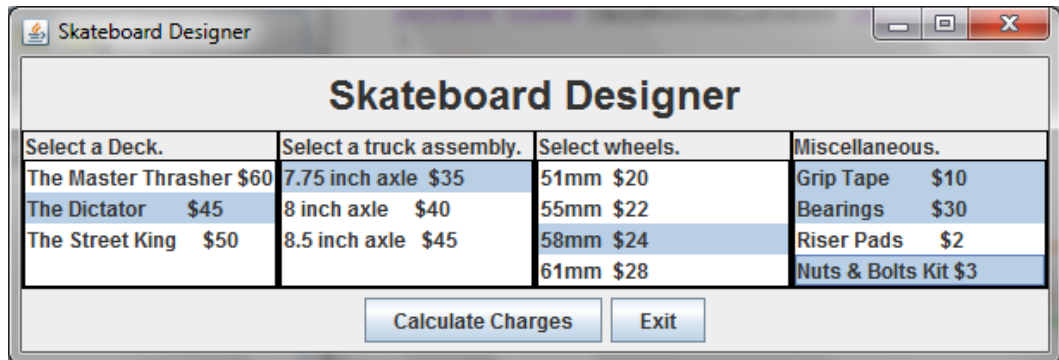Michigan at 6 percent), and the total of the order.

In addition, your application should also use an icon image to represent the The Skate
Shop. You should also have a "Calculate Order" button and an "Exit" button that
invoke appropriate ActionListener methods.

Be creative and have some fun with the look and feel.

Step 2: Develop Logic Plan

Devise a "story board" for your application and draw a basic flowchart or write pseudocode that details your logic plan for solving this problem and helps you plan the program.

Consider the following example:

Skateboard Designer

Skateboard Designer

Select a Deck.	Select a truck assembly.	Select wheels.	Miscellaneous.
The Master Thrasher $60	7.75 inch axle $35	51mm $20	Grip Tape $10
The Dictator $45	8 inch axle $40	55mm $22	Bearings $30
The Street King $50	8.5 inch axle $45	58mm $24	Riser Pads $2
		61mm $28	Nuts & Bolts Kit $3

Calculate Charges   Exit

Step 3: Code It

Use jGRASP or your IDE to write the Java program that addresses the assignment specifics.

Type in your program code

1. **Compile** your program and correct all the syntax errors
2. **Run** your program and evaluate the output for correctness

Deliverables   Submit the Java source code file(s) (the class definition and driver .java files you completed) to the **Program 8 Dropbox** within the Delta eLearning System.

Create a hardcopy for turn-in and grading containing the following:

a) Title Page
b) Storyboard (hand drawn ok) and Flow chart or pseudocode for program
c) Source Code (copy and paste from your IDE)
d) Output (copy and paste from your IDE and/or do a screen capture to get the output window).