```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw031
 1 package com.example.vphw031;
 3 import javafx.application.Platform;
 4 import javafx.event.ActionEvent;
 5 import javafx.fxml.FXML;
 6 import javafx.scene.control.Button;
 7 import javafx.scene.control.TextField;
 9 import java.math.RoundingMode;
10 import java.text.DecimalFormat;
11
12 public class HelloController {
       @FXML
13
14
       private Button calc_btn;
15
16
       @FXML
       private Button close_btn;
17
18
19
       @FXML
20
       private TextField marked_price;
21
22
       @FXML
23
       private TextField net_price;
24
25
       @FXML
26
       private TextField tax_mount;
27
28
29
       private TextField tax_rate;
30
       @FXML
31
       void calcTaxAndNet(ActionEvent event) {
32
33
            double markedPrice;
            try {
34
35
                markedPrice = Double.parseDouble(marked_price.getText().trim());
                marked_price.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;");
36
37
            } catch (NumberFormatException err) {
                marked_price.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
38
39
                return;
           }
40
41
42
            double taxRate;
            try {
43
                String str = tax_rate.getText().trim();
44
                if(str.charAt(str.length() - 1) == '%'){
45
                    str = str.substring(0, str.length() - 1);
46
47
                System.out.println("str: " + str);
48
49
                taxRate = Double.parseDouble(str);
                tax_rate.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;");
50
51
            } catch (NumberFormatException err) {
                tax_rate.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
52
53
                return;
           }
54
55
56
            double taxAmount = markedPrice/taxRate;
            tax_mount.setText("$" + truncate(taxAmount));
57
58
59
            double netPrice = markedPrice + taxAmount;
            net_price.setText("$" + truncate(netPrice));
60
61
62
       }
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw031
 63
 64
        @FXML
        void close(ActionEvent event) {
 65
             Platform.exit();
 66
 67
        }
 68
        public static String truncate(double input) {
 69
 70
             DecimalFormat decimalFormat = new DecimalFormat("0.00");
 71
             decimalFormat.setRoundingMode(RoundingMode.DOWN);
 72
             String formatResult = decimalFormat.format(input);
 73
             return formatResult;
        }
 74
 75 }
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw031
 1 <?xml version="1.0" encoding="UTF-8"?>
 3 <?import javafx.geometry.Insets?>
 4 <?import javafx.scene.control.Button?>
 5 <?import javafx.scene.control.Label?>
 6 <?import javafx.scene.control.Separator?>
 7 <?import javafx.scene.control.TextField?>
 8 <?import javafx.scene.layout.ColumnConstraints?>
 9 <?import javafx.scene.layout.GridPane?>
10 <?import javafx.scene.layout.RowConstraints?>
12 <GridPane alignment="TOP_CENTER" hgap="10.0" maxHeight="400.0" maxWidth="600.0" minHeight="-
   Infinity" minWidth="-Infinity" prefHeight="190.0" prefWidth="330.0" vgap="10.0" xmlns:fx="http
   ://javafx.com/fxml/1" xmlns="http://javafx.com/javafx/17" fx:controller="com.example.vphw031.
   HelloController">
13
     <columnConstraints>
       <ColumnConstraints hgrow="SOMETIMES" maxWidth="100.0" minWidth="10.0" prefWidth="50.0" />
14
15
       <ColumnConstraints hgrow="SOMETIMES" maxWidth="100.0" minWidth="10.0" prefWidth="50.0" />
         <ColumnConstraints hgrow="SOMETIMES" maxWidth="100.0" minWidth="10.0" prefWidth="50.0"
16
   />
17
     </columnConstraints>
     <rowConstraints>
18
19
       <RowConstraints maxHeight="30.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
20
       <RowConstraints maxHeight="30.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
       <RowConstraints maxHeight="30.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
21
22
         <RowConstraints maxHeight="30.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
23
         <RowConstraints maxHeight="30.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
24
     </re>
25
      <children>
26
         <Label text="Marked Price:">
27
            <GridPane.margin>
               <Insets left="10.0" />
28
29
            </GridPane.margin>
30
         </Label>
         <TextField fx:id="marked_price" alignment="CENTER_RIGHT" GridPane.columnIndex="1" />
31
32
         <Label text="Tax Rate:" GridPane.rowIndex="1">
33
            <GridPane.margin>
               <Insets left="10.0" />
34
35
            </GridPane.margin>
36
37
         <TextField fx:id="tax_rate" alignment="CENTER_RIGHT" text="0.00%" GridPane.columnIndex="
   1" GridPane.rowIndex="1" />
38
         <TextField fx:id="tax_mount" alignment="CENTER_RIGHT" disable="true" GridPane.
   columnIndex="1" GridPane.rowIndex="3" />
39
         <TextField fx:id="net_price" alignment="CENTER_RIGHT" disable="true" GridPane.
   columnIndex="1" GridPane.rowIndex="4" />
         <Label text="Tax Mount:" GridPane.rowIndex="3">
40
41
            <GridPane.margin>
42
               <Insets left="10.0" />
43
            </GridPane.margin>
         </Label>
44
         <Label text="Net Price:" GridPane.rowIndex="4">
45
46
            <GridPane.margin>
47
               <Insets left="10.0" />
48
            </GridPane.margin>
         </Label>
49
         <Separator prefWidth="200.0" GridPane.columnSpan="3" GridPane.rowIndex="2" />
50
         <Button fx:id="calc_btn" alignment="TOP_CENTER" mnemonicParsing="false" onAction="#
51
   calcTaxAndNet" onKeyPressed="#calcTaxAndNet" prefHeight="25.0" prefWidth="121.0" text="
   Calculate" GridPane.columnIndex="2" GridPane.rowIndex="1" />
52
         <Button fx:id="close_btn" alignment="CENTER" mnemonicParsing="false" onAction="#close"
   prefHeight="25.0" prefWidth="152.0" text="Close" GridPane.columnIndex="2" GridPane.rowIndex="4
```

```
double taxRate;
try {
    String str = tax_rate.getText().trim();
    if(str.charAt(str.length() - 1) == '%'){
                                                                                      Net Price Calculation
        str = str.substring(0, str.length() - 1);
                                                                                         Marked Price:
                                                                                                            120.95
    System.out.println("str: " + str);
                                                                                         Tax Rate:
                                                                                                           17.40%
                                                                                                                      Calculate
    taxRate = Double.parseDouble(str);
    tax_rate.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;");
} catch (NumberFormatException err) {
                                                                                         Tax Mount:
                                                                                                             $6.95
    tax_rate.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
    return;
                                                                                         Net Price:
                                                                                                           $127.90
                                                                                                                       Close
double taxAmount = markedPrice/taxRate;
tax_mount.setText("$" + truncate(taxAmount));
double netPrice = markedPrice + taxAmount;
net_price.setText("$" + truncate(netPrice));
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
 1 package com.example.vphw032;
 3 import javafx.application.Platform;
 4 import javafx.event.ActionEvent;
 5 import javafx.fxml.FXML;
 6 import javafx.scene.Node;
 7 import javafx.scene.chart.*;
 8 import javafx.scene.control.Button;
 9 import javafx.scene.control.TextField;
10 import javafx.scene.input.MouseEvent;
11
12 public class HelloController {
13
       @FXML
14
       private Button btnClose;
15
16
       @FXML
17
       private Button btnGenerate;
18
19
       @FXML
20
       private BarChart<String, Number> barChart;
21
22
       @FXML
23
       private TextField txtCurrentQtr1;
24
25
       @FXML
       private TextField txtCurrentQtr2;
26
27
28
29
       private TextField txtCurrentQtr3;
30
       @FXML
31
32
       private TextField txtCurrentQtr4;
33
34
       @FXML
35
       private TextField txtPreviousQtr1;
36
37
       @FXML
38
       private TextField txtPreviousQtr2;
39
40
41
       private TextField txtPreviousQtr3;
42
43
       @FXML
       private TextField txtPreviousQtr4;
44
45
       @FXML
46
47
       private CategoryAxis x;
48
49
       @FXML
50
       private NumberAxis y;
51
52
       @FXML
       void close(ActionEvent event) {
53
            Platform.exit();
54
       }
55
56
       @FXML
57
       void setBarChartColor(MouseEvent event) {
58
59
            //set first bar color
            for(Node n:barChart.lookupAll(".default-color0.chart-bar")) {
60
                n.setStyle("-fx-bar-fill: #ff391f;");
61
62
            }
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
            //second bar color
 64
             for(Node n:barChart.lookupAll(".default-color1.chart-bar")) {
 65
 66
                 n.setStyle("-fx-bar-fill: #1e90ff;");
 67
            }
        }
 68
 69
 70
        @FXML
 71
        void generate(ActionEvent event) {
 72
             if(barChart.getData().isEmpty()){
 73
 74
                 int[] curr = new int[4];
 75
                 int[] pre = new int[4];
 76
                 if(txtCurrentQtr1 == null || txtCurrentQtr2 == null || txtCurrentQtr3 == null ||
 77
    txtCurrentQtr4 == null){
 78
                     return;
 79
                 }
 80
 81
                 if(txtPrevious0tr1 == null || txtPrevious0tr2 == null || txtPrevious0tr3 == null
     || txtPreviousQtr4 == null){
 82
                     return;
                 }
 83
 84
 85
                 try {
 86
                     curr[0] = Integer.parseInt(txtCurrentQtr1.getText().trim());
                     txtCurrentQtr1.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
 87
    );
                 } catch (NumberFormatException err) {
 88
                     txtCurrentQtr1.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
 89
 90
                     return;
                 }
 91
 92
 93
                 try {
 94
                     curr[1] = Integer.parseInt(txtCurrentQtr2.getText().trim());
 95
                     txtCurrentQtr2.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
    );
 96
                 } catch (NumberFormatException err) {
 97
                     txtCurrentQtr2.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
 98
                     return;
                 }
 99
100
101
                 try {
102
                     curr[2] = Integer.parseInt(txtCurrentQtr3.getText().trim());
                     txtCurrentQtr3.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
103
    );
104
                 } catch (NumberFormatException err) {
                     txtCurrentQtr3.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
105
                     return;
106
                 }
107
108
109
                 try {
110
                     curr[3] = Integer.parseInt(txtCurrentQtr4.getText().trim());
                     txtCurrentQtr4.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
111
    );
                 } catch (NumberFormatException err) {
112
                     txtCurrentQtr4.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
113
114
                     return;
                 }
115
116
117
118
                 try {
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
119
                     pre[0] = Integer.parseInt(txtPreviousQtr1.getText().trim());
                     txtPreviousQtr1.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
120
    );
121
                 } catch (NumberFormatException err) {
                     txtPreviousQtr1.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
122
123
                     return:
                 }
124
125
126
                 try {
                     pre[1] = Integer.parseInt(txtPreviousQtr2.getText().trim());
127
                     txtPreviousQtr2.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
128
    );
129
                 } catch (NumberFormatException err) {
                     txtPreviousQtr2.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
130
131
                     return;
                 }
132
133
134
                 try {
                     pre[2] = Integer.parseInt(txtPreviousQtr3.getText().trim());
135
136
                     txtPreviousQtr3.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
    );
                 } catch (NumberFormatException err) {
137
                     txtPreviousQtr3.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
138
139
                     return;
                 }
140
141
142
143
                     pre[3] = Integer.parseInt(txtPreviousQtr4.getText().trim());
                     txtPreviousQtr4.setStyle("-fx-border-color: #d3d3d3; -fx-border-radius: 3px;"
144
                 } catch (NumberFormatException err) {
145
                     txtPreviousQtr4.setStyle("-fx-border-color: #f00; -fx-border-radius: 3px;");
146
147
                     return;
148
                 }
149
150
                 // Series 1 - Current Year's Sales
151
                 XYChart.Series<String, Number> dataSeries1 = new XYChart.Series();
152
                 dataSeries1.setName(null);
153
154
                 for(int i = 0; i < curr.length; i++){</pre>
155
                     dataSeries1.getData().add(new XYChart.Data(Integer.toString(i), curr[i]/100
    ));
156
                 }
157
                 // Series 2 - Previous Year's Sales
158
159
                 XYChart.Series<String, Number> dataSeries2 = new XYChart.Series();
                 dataSeries2.setName(null);
160
161
                 for(int i = 0; i < pre.length; i++){</pre>
162
                     dataSeries2.getData().add(new XYChart.Data(Integer.toString(i), pre[i]/100));
163
                 }
164
165
                 //Hide series name
166
                 x.setTickLabelsVisible(false);
167
                 x.setTickMarkVisible(false);
168
169
                 // Add Series to BarChart.
170
171
                 barChart.getData().addAll(dataSeries1, dataSeries2);
            }
172
        }
173
174 }
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
 1 <?xml version="1.0" encoding="UTF-8"?>
 2
 3 <?import javafx.geometry.Insets?>
 4 <?import javafx.scene.chart.BarChart?>
 5 <?import javafx.scene.chart.CategoryAxis?>
 6 <?import javafx.scene.chart.NumberAxis?>
 7 <?import javafx.scene.control.Button?>
 8 <?import javafx.scene.control.Label?>
 9 <?import javafx.scene.control.Separator?>
10 <?import javafx.scene.control.TextField?>
11 <?import javafx.scene.layout.ColumnConstraints?>
12 <?import javafx.scene.layout.GridPane?>
13 <?import javafx.scene.layout.HBox?>
14 <?import javafx.scene.layout.RowConstraints?>
15 <?import javafx.scene.layout.StackPane?>
16 <?import javafx.scene.layout.VBox?>
17 <?import javafx.scene.shape.Rectangle?>
18
19 <GridPane alignment="CENTER" hgap="5.0" maxHeight="400.0" maxWidth="-Infinity" minHeight="-
   Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" style="-fx-background-
   color: #fff;" vgap="5.0" xmlns:fx="http://javafx.com/fxml/1" xmlns="http://javafx.com/javafx/
   17" fx:controller="com.example.vphw032.HelloController">
20
     <columnConstraints>
21
       <ColumnConstraints hgrow="SOMETIMES" maxWidth="500.0" minWidth="10.0" prefWidth="300.0" />
22
       <ColumnConstraints hgrow="SOMETIMES" minWidth="10.0" prefWidth="100.0" />
23
     </columnConstraints>
24
     <rowConstraints>
25
       <RowConstraints maxHeight="80.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
       <RowConstraints maxHeight="80.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
26
27
       <RowConstraints maxHeight="200.0" minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
28
     </re>
29
      <padding>
30
         <Insets bottom="20.0" left="20.0" right="20.0" top="20.0" />
31
      </padding>
32
      <children>
33
         <StackPane prefHeight="150.0" prefWidth="200.0">
34
            <children>
                <HBox maxHeight="65.0" prefHeight="65.0" prefWidth="378.0" spacing="10.0" style="-</p>
35
   fx-border-color: #000;" StackPane.alignment="CENTER">
36
                   <children>
37
                      <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
38
                         <children>
39
                            <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="1st</pre>
    Qtr" textAlignment="RIGHT" />
                            <TextField fx:id="txtCurrentQtr1" alignment="CENTER_RIGHT" text="12000
40
   " />
                         </children>
41
                      </VBox>
42
43
                      <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
44
                         <children>
45
                            <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="2nd</pre>
    Qtr" textAlignment="RIGHT" />
                            <TextField fx:id="txtCurrentQtr2" alignment="CENTER_RIGHT" text="14500"
46
   " />
47
                         </children>
                      </VBox>
48
                      <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
49
50
                         <children>
51
                            <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="3rd</pre>
    Qtr" textAlignment="RIGHT" />
52
                            <TextField fx:id="txtCurrentQtr3" alignment="CENTER_RIGHT" text="8500"
   />
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
 53
                           </children>
                       </VBox>
 54
 55
                       <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
 56
 57
                              <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="</pre>
    4th Qtr" textAlignment="RIGHT" />
 58
                              <TextField fx:id="txtCurrentQtr4" alignment="CENTER_RIGHT" text="
    16800" />
 59
                           </children>
                       </VBox>
 60
                    </children>
 61
 62
                    <padding>
                       <Insets bottom="10.0" left="10.0" right="10.0" top="10.0" />
 63
 64
                    </padding>
 65
                 </HBox>
 66
                 <Label alignment="CENTER" prefHeight="17.0" prefWidth="113.0" style="-fx-</pre>
    background-color: #fff;" text="Current Year's Sales" textAlignment="CENTER" translateX="-125.
    0" translateY="-32.0" />
              </children>
 67
 68
           </StackPane>
 69
           <Button fx:id="btnClose" maxHeight="60.0" mnemonicParsing="false" onAction="#close"</pre>
    prefHeight="60.0" prefWidth="177.0" text="Close" GridPane.columnIndex="1" />
 70
           <StackPane prefHeight="150.0" prefWidth="200.0" GridPane.rowIndex="1">
 71
              <children>
                 <HBox maxHeight="65.0" prefHeight="65.0" prefWidth="378.0" spacing="10.0" style</pre>
 72
    ="-fx-border-color: #000;" StackPane.alignment="CENTER">
 73
                    <children>
 74
                       <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
 75
                           <children>
                              <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="</pre>
 76
    1st Qtr" textAlignment="RIGHT" />
 77
                              <TextField fx:id="txtPreviousQtr1" alignment="CENTER_RIGHT" text="
    10000" />
 78
                           </children>
 79
                       </VBox>
 80
                       <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
 81
                           <children>
                              <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="</pre>
 82
    2nd Qtr" textAlignment="RIGHT" />
                              <TextField fx:id="txtPreviousQtr2" alignment="CENTER_RIGHT" text="
 83
    11000" />
                           </children>
 84
 85
                       </VBox>
                       <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
 86
 87
                           <children>
 88
                              <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="</pre>
    3rd Qtr" textAlignment="RIGHT" />
 89
                              <TextField fx:id="txtPreviousQtr3" alignment="CENTER_RIGHT" text="
    12500" />
 90
                           </children>
                       </VBox>
 91
 92
                       <VBox maxWidth="80.0" prefHeight="200.0" prefWidth="100.0">
 93
                           <children>
 94
                              <Label alignment="CENTER" prefHeight="17.0" prefWidth="79.0" text="</pre>
    4th Qtr" textAlignment="RIGHT" />
                              <TextField fx:id="txtPreviousQtr4" alignment="CENTER_RIGHT" text="
 95
    15800" />
 96
                           </children>
 97
                       </VBox>
 98
                    </children>
 99
                    <padding>
100
                       <Insets bottom="10.0" left="10.0" right="10.0" top="10.0" />
```

```
Github-Link: https://github.com/Bagabandi152/Visual-Programing-Lesson/tree/main/Lab04/vphw032
101
                    </padding>
102
                 </HBox>
103
                 <Label alignment="CENTER" prefHeight="17.0" prefWidth="113.0" style="-fx-</pre>
    background-color: #fff;" text="Previous Year's Sales" textAlignment="CENTER" translateX="-125
    .0" translateY="-32.0" />
104
              </children>
105
           </StackPane>
           <Button fx:id="btnGenerate" maxHeight="60.0" mnemonicParsing="false" onAction="#
106
    generate" onMousePressed="#setBarChartColor" prefHeight="60.0" prefWidth="177.0" text="
    Generate" GridPane.columnIndex="1" GridPane.rowIndex="1" />
           <VBox prefHeight="200.0" prefWidth="100.0" spacing="10.0" GridPane.columnIndex="1"</pre>
107
    GridPane.rowIndex="2">
108
              <children>
                 <StackPane maxHeight="90.0" prefHeight="17.0" prefWidth="200.0">
109
110
                    <children>
111
                       <Separator prefWidth="200.0" />
                       <Label alignment="CENTER" prefHeight="17.0" prefWidth="52.0" style="-fx-</pre>
112
    background-color: #fff;" text="Legend" translateY="-5.0" />
                    </children>
113
114
                 </StackPane>
                 <HBox alignment="CENTER" prefHeight="17.0" prefWidth="200.0">
115
116
                    <children>
                       <Rectangle arcHeight="5.0" arcWidth="5.0" fill="#ff391f" height="17.0"</pre>
117
    stroke="TRANSPARENT" strokeType="INSIDE" width="17.0" />
                       <Label alignment="CENTER" contentDisplay="RIGHT" prefHeight="17.0"</pre>
118
    prefWidth="100.0" text="This Year's Sales" />
119
                    </children>
120
                 </HBox>
                 <HBox alignment="CENTER" prefHeight="17.0" prefWidth="200.0">
121
122
                    <children>
                       <Rectangle arcHeight="5.0" arcWidth="5.0" fill="DODGERBLUE" height="17.0"</pre>
123
    stroke="TRANSPARENT" strokeType="INSIDE" width="17.0" />
                       <Label alignment="CENTER" prefHeight="17.0" prefWidth="100.0" text="Last</pre>
124
    Year's Sales" />
                    </children>
125
126
                 </HBox>
127
              </children>
128
              <padding>
129
                 <Insets bottom="5.0" left="5.0" right="5.0" top="15.0" />
              </padding>
130
131
           </VBox>
           <BarChart fx:id="barChart" GridPane.rowIndex="2">
132
133
             <xAxis>
134
               <CategoryAxis side="BOTTOM" tickMarkVisible="false" fx:id="x" />
135
             </xAxis>
             <yAxis>
136
               <NumberAxis fx:id="y" side="LEFT" />
137
138
             </yAxis>
139
           </BarChart>
```

</children>

141 </GridPane>

140

142

```
Company Sales Annual Report!
                                                                               Current Year's Sales
public class HelloApplication extends Application {
                                                                                                            3rd Qtr
                                                                                                                          4th Otr
                                                                                   1st Qtr
                                                                                               2nd Qtr
   @Override
                                                                                                                                                Close
                                                                                      12000
                                                                                                  14500
                                                                                                                8500
                                                                                                                            16800
    public void start(Stage stage) throws IOException {
        FXMLLoader fxmlLoader = new FXMLLoader(HelloApplication.cla
                                                                              Previous Year's Sales
        Scene scene = new Scene(fxmlLoader.load(), v: 600, v1: 400)
                                                                                   1st Qtr
                                                                                                2nd Qtr
                                                                                                             3rd Qtr
                                                                                                                          4th Qtr
        stage.setTitle("Company Sales Annual Report!");
                                                                                                                                              Generate
                                                                                      10000
                                                                                                  11000
                                                                                                               12500
                                                                                                                            15800
        stage.setScene(scene);
        stage.show();
                                                                                 200 -
                                                                                                                                               Legend
                                                                                 150 -
                                                                                                                                             This Year's Sales
    public static void main(String[] args) { launch(); }
                                                                                                                                             Last Year's Sales
                                                                                 100
```

package com.example.vphw032;