

```
1 /**
2  * Sunil Sunichura
3  * Student Number: 991578383
4  * Assignment 2
5  * February 25, 2020
6  */
7 package orderfx;
8
9 import content.DisplayOrder;
10 import content.Order;
11 import javafx.application.Application;
12 import javafx.scene.Scene;
13 import javafx.scene.control.Button;
14 import javafx.scene.control.Label;
15 import javafx.scene.control.TextField;
16 import javafx.scene.layout.GridPane;
17 import javafx.scene.layout.HBox;
18 import javafx.scene.layout.VBox;
19 import javafx.scene.paint.Color;
20 import javafx.scene.shape.Circle;
21 import javafx.scene.shape.Ellipse;
22 import javafx.scene.shape.Rectangle;
23 import javafx.stage.Stage;
24
25 public class Main extends Application {
26
27     private final Label lblId = new Label("Order ID: ");
28     private final TextField txtId = new TextField();
29     private final Label lblFName = new Label("First Name: ");
30     private final TextField txtFName = new TextField();
31     private final Label lblLName = new Label("Last Name: ");
32     private final TextField txtLName = new TextField();
33     private final Label lblCity = new Label("City: ");
34     private final TextField txtCity = new TextField();
35
36     private final Circle circle = new Circle(25);
37     private final Rectangle rect1 = new Rectangle(10, 10, 50, 50);
38     private final Ellipse elli = new Ellipse(10, 30);
39     private final Rectangle rect2 = new Rectangle(10, 10, 50, 50);
40
41     private int num1 = 0;
```

```
42     private int num2 = 0;
43     private int num3 = 0;
44     private int num4 = 0;
45
46     private final HBox panel = new HBox(20, circle, rect1, elli, rect2);
47     private final Label label = new Label("Click shape to add to order");
48     private final HBox pane2 = new HBox(label);
49     private final HBox pane3 = new HBox(20);
50     private final VBox pane = new VBox(20, panel, pane2, pane3);
51     private final Button btnDisplay = new Button("Display Order");
52
53     @Override
54     public void start(Stage primaryStage) {
55
56         circle.setOnMouseClicked((e) -> {
57             pane3.getChildren().add(addCircle());
58             this.num1 = num1 + 1;
59         });
60
61         circle.setFill(Color.RED);
62
63         rect1.setOnMouseClicked((e) -> {
64             pane3.getChildren().add(addRectangle1());
65             this.num2 = num2 + 1;
66         });
67         rect1.setFill(Color.BLUE);
68
69         elli.setOnMouseClicked((e) -> {
70             pane3.getChildren().add(addEllipse());
71             this.num3 = num3 + 1;
72         });
73
74         elli.setFill(Color.GREEN);
75
76         rect2.setOnMouseClicked((e) -> {
77             pane3.getChildren().add(addRectangle2());
78             this.num4 = num4 + 1;
79         });
80
81         rect2.setFill(Color.ORANGE);
82
```

```
83         btnDisplay.setOnAction((e) -> {
84             Order one = new Order();
85             String orderID = txtId.getText();
86             String firstName = txtFName.getText();
87             String lastName = txtLName.getText();
88             String city = txtCity.getText();
89             int num1 = this.num1;
90             int num2 = this.num2;
91             int num3 = this.num3;
92             int num4 = this.num4;
93             one.setOrderID(orderID);
94             one.setFirstName(firstName);
95             one.setLastName(lastName);
96             one.setCity(city);
97             one.setNum1(num1);
98             one.setNum2(num2);
99             one.setNum3(num3);
100            one.setNum4(num4);
101            DisplayOrder ds = new DisplayOrder(one);
102            ds.show();
103
104        });
105        Scene scene = new Scene(getGrid(), 500, 500);
106
107        primaryStage.setTitle("Select your order");
108        primaryStage.setScene(scene);
109        primaryStage.show();
110
111    }
112
113    private Circle addCircle() {
114        Circle c1 = new Circle(20);
115        c1.setFill(Color.RED);
116        c1.setStroke(Color.BLACK);
117        return c1;
118    }
119
120    private Rectangle addRectangle1() {
121        Rectangle r1 = new Rectangle(10, 10, 40, 40);
122        r1.setFill(Color.BLUE);
123        r1.setStroke(Color.BLACK);
```

```
124         return r1;
125     }
126
127     private Ellipse addEllipse() {
128         Ellipse e1 = new Ellipse(5, 20);
129         e1.setFill(Color.GREEN);
130         e1.setStroke(Color.BLACK);
131         return e1;
132     }
133
134     private Rectangle addRectangle2() {
135         Rectangle r2 = new Rectangle(10, 10, 40, 40);
136         r2.setFill(Color.ORANGE);
137         r2.setStroke(Color.BLACK);
138         return r2;
139     }
140
141     private GridPane getGrid() {
142         GridPane pane4 = new GridPane();
143         pane4.add(lblId, 0, 0);
144         pane4.add(txtId, 1, 0);
145         pane4.add(lblFName, 0, 1);
146         pane4.add(txtFName, 1, 1);
147         pane4.add(lblLName, 0, 2);
148         pane4.add(txtLName, 1, 2);
149         pane4.add(lblCity, 0, 3);
150         pane4.add(txtCity, 1, 3);
151         pane4.add(pane, 1, 4);
152         pane4.add(btnDisplay, 1, 5);
153         return pane4;
154     }
155
156     public static void main(String[] args) {
157         launch(args);
158     }
159
160 }
```