

```
1  /*
2   * To change this license header, choose License Headers in Project Properties
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package class12_javafx_ui;
7
8  /**
9   *
10   * @author Administrator
11   */
12  import java.net.URL;
13  import java.util.Optional;
14  import java.util.ResourceBundle;
15  import javafx.event.ActionEvent;
16  import javafx.fxml.FXML;
17  import javafx.fxml.Initializable;
18  import javafx.scene.control.Alert;
19  import javafx.scene.control.Alert.AlertType;
20  import javafx.scene.control.Button;
21  import javafx.scene.control.ButtonType;
22  import javafx.scene.control.TextField;
23
24  public class RectangleAreaController implements Initializable {
25
26      @FXML
27      private TextField txtLength;
28
29      @FXML
30      private TextField txtWidth;
31
32      @FXML
33      private Button btnCalculate;
34
35      @FXML
36      private Button btnReset;
37
38      @FXML
39      private TextField txtPerimeterResult;
40
41      @FXML
42      private TextField txtAreaResult;
43
44      @FXML
45      void btnCalculateClick(ActionEvent event) {
46          double length = Double.parseDouble(txtLength.getText());
47          double width = Double.parseDouble(txtWidth.getText());
48
49          double p = (length + width) * 2;
50          double area = length * width;
51      }
```

```
52         txtPerimeterResult.setText(Double.toString(p));
53         txtAreaResult.setText(Double.toString(area));
54
55     }
56
57     @FXML
58     void btnResetClick(ActionEvent event) {
59         Alert alert = new Alert(AlertType.CONFIRMATION);
60         alert.setHeaderText("Are you sure you want to reset all inputs?")
61         alert.setTitle("Resetting Inputs");
62         Optional<ButtonType> confirmationResponse
63             = alert.showAndWait();
64         if (confirmationResponse.get() == ButtonType.OK) {
65             resetTextFields();
66         }
67     }
68
69     @Override
70     public void initialize(URL location, ResourceBundle resources) {
71         System.out.println("Initialized");
72         resetTextFields();
73     }
74
75     void resetTextFields() {
76         txtLength.setText("0");
77         txtWidth.setText("0");
78     }
79 }
80
```