

**Informatics Institute of Technology**

**Department of Computing**

**(B.Eng.) in Software Engineering**

**Module: 4COSC010C Programming Principle 2**

**Coursework -01**

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| --- | --- |
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# Main.java

**import** javafx.application.Application;  
**import** javafx.stage.Stage;  
  
**public class** Main **extends** Application {  
  
 **public static void** main(String[] args) {  
 *launch*(args);  
 }  
  
 @Override  
 **public void** start(Stage primaryStage) {  
  
 MainWindow.*FirstWindow*();  
  
 }  
}

# MainWindow.java

**import** javafx.scene.Scene;  
**import** javafx.scene.control.Button;  
**import** javafx.scene.layout.AnchorPane;  
**import** javafx.scene.paint.Color;  
**import** javafx.stage.Stage;  
  
**public class** MainWindow {  
 **public static void** FirstWindow() {  
 Stage primary = **new** Stage();  
 primary.setMaxWidth(500);  
 primary.setMaxHeight(400);  
 primary.setTitle(**"First Window"**); *// Primary Window*

*//--------------------- Main Window Buttons ------------------------------------------//* Button btnFinancial = **new** Button(**"Financial Calculator"**);  
 btnFinancial.setLayoutX(150);  
 btnFinancial.setLayoutY(100);  
 btnFinancial.setPrefSize(200,20);  
 btnFinancial.setTextFill(Color.***WHITE***);  
 btnFinancial.setStyle(**"-fx-font-weight: bold;-fx-font-size:15;-fx-background-color: #2ABB9B;"**);  
  
  
 Button btnMortgage = **new** Button(**"Mortgage Calculator"**);  
 btnMortgage.setLayoutX(150);  
 btnMortgage.setLayoutY(150);  
 btnMortgage.setPrefSize(200,20);  
 btnMortgage.setTextFill(Color.***WHITE***);  
 btnMortgage.setStyle(**"-fx-background-color: #2ABB9B;-fx-font-size:15;-fx-font-weight: bold;"**);  
  
 Button btnLoan = **new** Button(**"Auto Loan Calculator"**);  
 btnLoan.setLayoutX(150);  
 btnLoan.setLayoutY(200);  
 btnLoan.setPrefSize(200,20);  
 btnLoan.setTextFill(Color.***WHITE***);  
 btnLoan.setStyle(**"-fx-background-color: #2ABB9B;-fx-font-size:15; -fx-font-weight: bold;"**);  
   
 btnFinancial.setOnAction(event ->{primary.close();Finance.*FinanceCal*();});   
 btnMortgage.setOnAction(event -> {primary.close();Mortgage.*MortgageCal*();});  
 btnLoan.setOnAction(event -> {primary.close();AutoLoan.*AutoLoanCal*();});  
  
 AnchorPane ancMain = **new** AnchorPane(btnFinancial,btnMortgage,btnLoan);  
 ancMain.setPrefSize(500,400);  
 ancMain.setStyle(**"-fx-background-color:#6C7A89;"**);  
 Scene sc = **new** Scene(ancMain);  
 primary.setScene(sc);  
 primary.show(); *// Show the Primary Stage* }  
}

# Finance.java

**import** javafx.geometry.Pos;  
**import** javafx.scene.Scene;  
**import** javafx.scene.control.\*;  
**import** javafx.scene.layout.AnchorPane;  
**import** javafx.scene.layout.HBox;  
**import** javafx.scene.layout.VBox;  
**import** javafx.scene.paint.Color;  
**import** javafx.scene.text.Font;  
**import** javafx.stage.Stage;  
  
**public class** Finance {  
 **public static void** FinanceCal(){  
  
 Stage FinanceWindow = **new** Stage();  
 FinanceWindow.setMaxWidth(900);  
 FinanceWindow.setMaxHeight(450);  
 FinanceWindow.setTitle(**"Financial Calculator"**);  
  
  
 *//------------------ Back Button ------------------------//* Button btnBack = **new** Button(**"Back"**);  
 btnBack.setLayoutX(646);  
 btnBack.setLayoutY(300);  
 btnBack.setPrefSize(100,30);  
 btnBack.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 *//----------------- Help Button ----------------------//* Button btnHelp = **new** Button(**"Help"**);  
 btnHelp.setLayoutX(750);  
 btnHelp.setLayoutY(300);  
 btnHelp.setPrefSize(100,30);  
 btnHelp.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 *//---------------- Close Button ---------------------//* Button btnClose = **new** Button(**"Close"**);  
 btnClose.setLayoutX(700);  
 btnClose.setLayoutY(340);  
 btnClose.setPrefSize(100,30);  
 btnClose.setStyle(**"-fx-font-size:15; -fx-font-weight: bold; -fx-background-color: #2ABB9B;"**);  
  
 btnBack.setOnAction(event -> {FinanceWindow.close();  
 MainWindow.*FirstWindow*();});  
 btnClose.setOnAction(event -> {FinanceWindow.close();});  
 btnHelp.setOnAction(event -> {Help.*HelpBtn*();});  
  
 *//--------------------------- Finance Calculator ----------------------------------------------//* TabPane tabPaneFinance = **new** TabPane();  
 tabPaneFinance.setStyle(**"-fx-background-color:#6C7A89;"**);  
 tabPaneFinance.setPrefSize(600, 600);  
 tabPaneFinance.setTabClosingPolicy(TabPane.TabClosingPolicy.***UNAVAILABLE***); *// Removing close button in tabs  
  
 //--------------------------- Future Value Tab ------------------------------------------------//* Tab tabFv = **new** Tab(**"FV"**);  
 tabFv.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 *//--------------------------- Label For Future Value Tab ------------------------------------//* Label lblN = **new** Label(**"N (# of Periods)"**);  
 lblN.setLayoutX(53);  
 lblN.setLayoutY(50);  
 lblN.setFont(**new** Font(**"Calibri"**, 15));  
 lblN.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSp = **new** Label(**"Start Principal"**);  
 lblSp.setLayoutX(62);  
 lblSp.setLayoutY(90);  
 lblSp.setFont(**new** Font(**"Calibri"**, 15));  
 lblSp.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIy = **new** Label(**"I/Y (interest)"**);  
 lblIy.setLayoutX(72);  
 lblIy.setLayoutY(130);  
 lblIy.setFont(**new** Font(**"Calibri"**, 15));  
 lblIy.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblPmt = **new** Label(**"PMT (Annuity Payment)"**);  
 lblPmt.setLayoutX(10);  
 lblPmt.setLayoutY(170);  
 lblPmt.setFont(**new** Font(**"Calibri"**, 15));  
 lblPmt.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//------------------------------------- Output Label For Future Value Tab ------------------------//* Label lblResult = **new** Label(**"Results"**);  
 lblResult.setLayoutX(300);  
 lblResult.setLayoutY(50);  
 lblResult.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblResult.setTextFill(Color.***WHITE***); *// Set the color for label* lblResult.setStyle(**"-fx-background-color:Green; -fx-padding:3px;"**);  
 lblResult.setPrefSize(290, 20);  
  
 Label lblFv = **new** Label(**"FV (Future Value)"**);  
 lblFv.setLayoutX(300);  
 lblFv.setLayoutY(80);  
 lblFv.setFont(**new** Font(**"Calibri"**, 15));  
 lblFv.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFv.setPrefSize(180, 20);  
  
 Label lblPv = **new** Label(**"PV (Present Value)"**);  
 lblPv.setLayoutX(300);  
 lblPv.setLayoutY(105);  
 lblPv.setFont(**new** Font(**"Calibri"**, 15));  
 lblPv.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPv.setPrefSize(180, 20);  
  
 Label lblNOut = **new** Label(**"N (Number of Periods)"**);  
 lblNOut.setLayoutX(300);  
 lblNOut.setLayoutY(130);  
 lblNOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOut.setPrefSize(180, 20);  
  
 Label lblIyOut = **new** Label(**"I/Y (Interest Rate)"**);  
 lblIyOut.setLayoutX(300);  
 lblIyOut.setLayoutY(155);  
 lblIyOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOut.setPrefSize(180, 20);  
  
 Label lblPer = **new** Label(**"PMT (Periodic Payment)"**);  
 lblPer.setLayoutX(300);  
 lblPer.setLayoutY(180);  
 lblPer.setFont(**new** Font(**"Calibri"**, 15));  
 lblPer.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPer.setPrefSize(180, 20);  
  
  
 Label lblSi = **new** Label(**"Starting Investment"**);  
 lblSi.setLayoutX(300);  
 lblSi.setLayoutY(205);  
 lblSi.setFont(**new** Font(**"Calibri"**, 15));  
 lblSi.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSi.setPrefSize(180, 20);  
  
 Label lblTp = **new** Label(**"Total Principal"**);  
 lblTp.setLayoutX(300);  
 lblTp.setLayoutY(230);  
 lblTp.setFont(**new** Font(**"Calibri"**, 15));  
 lblTp.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTp.setPrefSize(180, 20);  
  
 Label lblTi = **new** Label(**"Total Interest"**);  
 lblTi.setLayoutX(300);  
 lblTi.setLayoutY(255);  
 lblTi.setFont(**new** Font(**"Calibri"**, 15));  
 lblTi.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTi.setPrefSize(180, 20);  
  
 *//------------------------------ Empty Label For Output Display --------------------------------//* Label lblFvOut = **new** Label();  
 lblFvOut.setLayoutX(482);  
 lblFvOut.setLayoutY(80);  
 lblFvOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblFvOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFvOut.setPrefSize(108, 20);  
 lblFvOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPvOut = **new** Label();  
 lblPvOut.setLayoutX(482);  
 lblPvOut.setLayoutY(105);  
 lblPvOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblPvOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPvOut.setPrefSize(108, 20);  
 lblPvOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblNOutput = **new** Label();  
 lblNOutput.setLayoutX(482);  
 lblNOutput.setLayoutY(130);  
 lblNOutput.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOutput.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOutput.setPrefSize(108, 20);  
 lblNOutput.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblIyOutput = **new** Label();  
 lblIyOutput.setLayoutX(482);  
 lblIyOutput.setLayoutY(155);  
 lblIyOutput.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOutput.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOutput.setPrefSize(108, 20);  
 lblIyOutput.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPerOut = **new** Label();  
 lblPerOut.setLayoutX(482);  
 lblPerOut.setLayoutY(180);  
 lblPerOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblPerOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPerOut.setPrefSize(108, 20);  
 lblPerOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblSiOut = **new** Label();  
 lblSiOut.setLayoutX(482);  
 lblSiOut.setLayoutY(205);  
 lblSiOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblSiOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSiOut.setPrefSize(108, 20);  
 lblSiOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTpOut = **new** Label();  
 lblTpOut.setLayoutX(482);  
 lblTpOut.setLayoutY(230);  
 lblTpOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTpOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTpOut.setPrefSize(108, 20);  
 lblTpOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTiOut = **new** Label();  
 lblTiOut.setLayoutX(482);  
 lblTiOut.setLayoutY(255);  
 lblTiOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTiOut.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTiOut.setPrefSize(108, 20);  
 lblTiOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 *//----------------------------------- TextField For Future Value Tab -------------------------//* TextField txtN = **new** TextField();  
 txtN.setLayoutX(160);  
 txtN.setLayoutY(50);  
 txtN.setPrefWidth(100);  
  
 TextField txtSp = **new** TextField();  
 txtSp.setLayoutX(160);  
 txtSp.setLayoutY(90);  
 txtSp.setPrefWidth(100);  
  
 TextField txtIy = **new** TextField();  
 txtIy.setLayoutX(160);  
 txtIy.setLayoutY(130);  
 txtIy.setPrefWidth(100);  
  
 TextField txtPmt = **new** TextField();  
 txtPmt.setLayoutX(160);  
 txtPmt.setLayoutY(170);  
 txtPmt.setPrefWidth(100);  
  
 *//--------------------- Calculate Button of Future Value Tab -------------------------//* Button btnCalFv = **new** Button(**"Calculate"**);  
 btnCalFv.setLayoutX(110);  
 btnCalFv.setLayoutY(250);  
 btnCalFv.setPrefSize(120,30);  
 btnCalFv.setStyle(**"-fx-font-size:15;-fx-font-color:white; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertFv = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 btnCalFv.setOnAction(event -> {  
 **try** {  
 *//-------------------Getting Value From TextField -------------------------------//* **double** noPeriods = Double.*parseDouble*(txtN.getText());  
 **double** startPrinc = Double.*parseDouble*(txtSp.getText());  
 **double** interest = Double.*parseDouble*(txtIy.getText());  
 **double** pmt = Double.*parseDouble*(txtPmt.getText());  
  
 *//----------------- Formula for Future Value Tab -----------------------------//* **double** futureValue = ((pmt) \* (Math.*pow*(1 + (interest / 100), noPeriods) - 1)) / (interest / 100) + startPrinc \* (Math.*pow*(1 + interest / 100, noPeriods));  
 **double** presentValue = futureValue \* Math.*pow*((1 + (interest / 100)), -noPeriods);  
 **double** totalPrincipal = startPrinc + (pmt \* noPeriods);  
 **double** totalInterest = futureValue - totalPrincipal;  
  
 *//---------------- Setting the Output into Empty Label ---------------------//* lblFvOut.setText(String.*format*(**"$"** + **"%.2f"**, futureValue));  
 lblPvOut.setText(String.*format*(**"$"** + **"%.2f"**, presentValue));  
 lblNOutput.setText(String.*format*(**"%.3f"**, noPeriods));  
 lblIyOutput.setText(String.*format*(**"%.3f"**, interest));  
 lblPerOut.setText(String.*format*(**"$"** + **"%.2f"**, pmt));  
 lblSiOut.setText(String.*format*(**"$"** + **"%.2f"**, startPrinc));  
 lblTpOut.setText(String.*format*(**"$"** + **"%.2f"**, totalPrincipal));  
 lblTiOut.setText(String.*format*(**"$"** + **"%.2f"**, totalInterest));  
 }**catch** (Exception exception){  
 alertFv.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertFv.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertFv.show();  
 }  
  
 });  
  
 AnchorPane ancFutureValue = **new** AnchorPane(); *// Creating Anchor Pane  
 //------------ Add the elements into AnchorPane* ancFutureValue.getChildren().addAll(lblN, lblIy, lblSp, lblPmt, txtN, txtSp, txtIy, txtPmt, btnCalFv,  
 lblTiOut, lblTi, lblTpOut, lblTp, lblSiOut, lblSi, lblPerOut, lblPer, lblIyOutput,  
 lblIyOut, lblNOutput, lblNOut, lblPvOut, lblPv, lblFvOut, lblFv, lblResult);  
  
 tabFv.setContent(ancFutureValue); *// Add the Anchor Pane into Future value Tab  
  
 //------------------------- PMT Tab ---------------------------------------------------//* Tab tabPmt = **new** Tab(**"PMT"**);  
 tabPmt.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 *//------------------------ Label For PMT Tab -----------------------------------------//* Label fv = **new** Label(**"FV (Future Value)"**);  
 fv.setLayoutX(53);  
 fv.setLayoutY(50);  
 fv.setFont(**new** Font(**"Calibri"**, 15));  
 fv.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblN2 = **new** Label(**"N (# of Periods)"**);  
 lblN2.setLayoutX(62);  
 lblN2.setLayoutY(90);  
 lblN2.setFont(**new** Font(**"Calibri"**, 15));  
 lblN2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSp2 = **new** Label(**"Start Principal"**);  
 lblSp2.setLayoutX(63);  
 lblSp2.setLayoutY(130);  
 lblSp2.setFont(**new** Font(**"Calibri"**, 15));  
 lblSp2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIy2 = **new** Label(**"I/Y (interest)"**);  
 lblIy2.setLayoutX(72);  
 lblIy2.setLayoutY(170);  
 lblIy2.setFont(**new** Font(**"Calibri"**, 15));  
 lblIy2.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//------------------------------- Output Label For PMT Tab ----------------------------//* Label lblResult2 = **new** Label(**"Results"**);  
 lblResult2.setLayoutX(300);  
 lblResult2.setLayoutY(50);  
 lblResult2.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblResult2.setTextFill(Color.***WHITE***); *// Set the color for label* lblResult2.setStyle(**"-fx-background-color:Green; -fx-padding:3px;"**);  
 lblResult2.setPrefSize(290, 20);  
  
 Label lblFv2 = **new** Label(**"FV (Future Value)"**);  
 lblFv2.setLayoutX(300);  
 lblFv2.setLayoutY(80);  
 lblFv2.setFont(**new** Font(**"Calibri"**, 15));  
 lblFv2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFv2.setPrefSize(180, 20);  
  
 Label lblPv2 = **new** Label(**"PV (Present Value)"**);  
 lblPv2.setLayoutX(300);  
 lblPv2.setLayoutY(105);  
 lblPv2.setFont(**new** Font(**"Calibri"**, 15));  
 lblPv2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPv2.setPrefSize(180, 20);  
  
 Label lblNOut2 = **new** Label(**"N (Number of Periods)"**);  
 lblNOut2.setLayoutX(300);  
 lblNOut2.setLayoutY(130);  
 lblNOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOut2.setPrefSize(180, 20);  
  
 Label lblIyOut2 = **new** Label(**"I/Y (Interest Rate)"**);  
 lblIyOut2.setLayoutX(300);  
 lblIyOut2.setLayoutY(155);  
 lblIyOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOut2.setPrefSize(180, 20);  
  
 Label lblPer2 = **new** Label(**"PMT (Periodic Payment)"**);  
 lblPer2.setLayoutX(300);  
 lblPer2.setLayoutY(180);  
 lblPer2.setFont(**new** Font(**"Calibri"**, 15));  
 lblPer2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPer2.setPrefSize(180, 20);  
  
  
 Label lblSi2 = **new** Label(**"Starting Investment"**);  
 lblSi2.setLayoutX(300);  
 lblSi2.setLayoutY(205);  
 lblSi2.setFont(**new** Font(**"Calibri"**, 15));  
 lblSi2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSi2.setPrefSize(180, 20);  
  
 Label lblTp2 = **new** Label(**"Total Principal"**);  
 lblTp2.setLayoutX(300);  
 lblTp2.setLayoutY(230);  
 lblTp2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTp2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTp2.setPrefSize(180, 20);  
  
 Label lblTi2 = **new** Label(**"Total Interest"**);  
 lblTi2.setLayoutX(300);  
 lblTi2.setLayoutY(255);  
 lblTi2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTi2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTi2.setPrefSize(180, 20);  
  
 *//----------------- Empty Label For Set the Output ------------------------------------//* Label lblFvOut2 = **new** Label();  
 lblFvOut2.setLayoutX(482);  
 lblFvOut2.setLayoutY(80);  
 lblFvOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblFvOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFvOut2.setPrefSize(108, 20);  
 lblFvOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPvOut2 = **new** Label();  
 lblPvOut2.setLayoutX(482);  
 lblPvOut2.setLayoutY(105);  
 lblPvOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblPvOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPvOut2.setPrefSize(108, 20);  
 lblPvOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblNOutput2 = **new** Label();  
 lblNOutput2.setLayoutX(482);  
 lblNOutput2.setLayoutY(130);  
 lblNOutput2.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOutput2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOutput2.setPrefSize(108, 20);  
 lblNOutput2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblIyOutput2 = **new** Label();  
 lblIyOutput2.setLayoutX(482);  
 lblIyOutput2.setLayoutY(155);  
 lblIyOutput2.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOutput2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOutput2.setPrefSize(108, 20);  
 lblIyOutput2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPerOut2 = **new** Label();  
 lblPerOut2.setLayoutX(482);  
 lblPerOut2.setLayoutY(180);  
 lblPerOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblPerOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPerOut2.setPrefSize(108, 20);  
 lblPerOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblSiOut2 = **new** Label();  
 lblSiOut2.setLayoutX(482);  
 lblSiOut2.setLayoutY(205);  
 lblSiOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblSiOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSiOut2.setPrefSize(108, 20);  
 lblSiOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTpOut2 = **new** Label();  
 lblTpOut2.setLayoutX(482);  
 lblTpOut2.setLayoutY(230);  
 lblTpOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTpOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTpOut2.setPrefSize(108, 20);  
 lblTpOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTiOut2 = **new** Label(**" "**);  
 lblTiOut2.setLayoutX(482);  
 lblTiOut2.setLayoutY(255);  
 lblTiOut2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTiOut2.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTiOut2.setPrefSize(108, 20);  
 lblTiOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 *//------------------------------- TextFields For PMT Tab --------------------------------------//* TextField txtFv = **new** TextField();  
 txtFv.setLayoutX(160);  
 txtFv.setLayoutY(50);  
 txtFv.setPrefWidth(100);  
  
  
 TextField txtN2 = **new** TextField();  
 txtN2.setLayoutX(160);  
 txtN2.setLayoutY(90);  
 txtN2.setPrefWidth(100);  
  
 TextField txtSp2 = **new** TextField();  
 txtSp2.setLayoutX(160);  
 txtSp2.setLayoutY(130);  
 txtSp2.setPrefWidth(100);  
  
 TextField txtIy2 = **new** TextField();  
 txtIy2.setLayoutX(160);  
 txtIy2.setLayoutY(170);  
 txtIy2.setPrefWidth(100);  
  
 *//------------------------------------- Calculate Button For PMT Tab --------------------------//* Button btnCalPmt = **new** Button(**"Calculate"**);  
 btnCalPmt.setLayoutX(110);  
 btnCalPmt.setLayoutY(250);  
 btnCalPmt.setPrefSize(120,30);  
 btnCalPmt.setStyle(**"-fx-font-size:15; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertPmt = **new** Alert(Alert.AlertType.***CONFIRMATION***); *// Alert Box* btnCalPmt.setOnAction(event -> {  
 **try** {  
  
 *//---------------------- Getting Value From TextField -----------------------------------//* **double** noPeriods = Double.*parseDouble*(txtN2.getText());  
 **double** startPrinc = Double.*parseDouble*(txtSp2.getText());  
 **double** interest = Double.*parseDouble*(txtIy2.getText());  
 **double** futureValue = Double.*parseDouble*(txtFv.getText());  
  
 *//---------------------- Formulas & Calculation For PMT Tab ------------------------------------------//* **double** presentValue = futureValue \* Math.*pow*((1 + (interest / 100)), -noPeriods);  
 **double** pmt = (futureValue - (startPrinc \* (Math.*pow*(1 + interest / 100, noPeriods)))) / ((Math.*pow*(1 + interest / 100, noPeriods) - 1) / (interest / 100));  
 **double** totalPrincipal = startPrinc + (pmt \* noPeriods);  
 **double** totalInterest = futureValue - totalPrincipal;  
  
 *//--------------------- Setting Output into Empty Label -------------------------------------------//* lblFvOut2.setText(String.*format*(**"$"** + **"%.2f"**, futureValue));  
 lblPvOut2.setText(String.*format*(**"$"** + **"%.2f"**, presentValue));  
 lblNOutput2.setText(String.*format*(**"%.3f"**, noPeriods));  
 lblIyOutput2.setText(String.*format*(**"%.3f"**, interest));  
 lblPerOut2.setText(String.*format*(**"$"** + **"%.2f"**, pmt));  
 lblSiOut2.setText(String.*format*(**"$"** + **"%.2f"**, startPrinc));  
 lblTpOut2.setText(String.*format*(**"$"** + **"%.2f"**, totalPrincipal));  
 lblTiOut2.setText(String.*format*(**"$"** + **"%.2f"**, totalInterest));  
 }**catch** (Exception exception){  
 alertPmt.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertPmt.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertPmt.show();  
 }  
  
 });  
  
 AnchorPane ancPmt = **new** AnchorPane();  
 ancPmt.getChildren().addAll(fv, txtN2, lblSp2, lblIy2, txtFv, txtSp2, txtIy2, lblTiOut2, lblTi2, lblTpOut2, btnCalPmt,  
 lblTp2,lblSi2, lblPerOut2, lblPer2, lblSiOut2, lblIyOutput2, lblIyOut2, lblNOutput2, lblNOut2, lblPvOut2, lblPv2,  
 lblFvOut2, lblFv2, lblResult2, lblN2);  
 tabPmt.setContent(ancPmt);  
  
  
 *//---------------------------------- N Tab -----------------------------------------------//* Tab tabN = **new** Tab(**"N"**);  
 tabN.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 *//--------------------------------- Label For N Tab -------------------------------------//* Label fv3 = **new** Label(**"FV (Future Value)"**);  
 fv3.setLayoutX(45);  
 fv3.setLayoutY(50);  
 fv3.setFont(**new** Font(**"Calibri"**, 15));  
 fv3.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSp4 = **new** Label(**"Start Principal"**);  
 lblSp4.setLayoutX(62);  
 lblSp4.setLayoutY(90);  
 lblSp4.setFont(**new** Font(**"Calibri"**, 15));  
 lblSp4.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIy4 = **new** Label(**"I/Y (Interest)"**);  
 lblIy4.setLayoutX(72);  
 lblIy4.setLayoutY(130);  
 lblIy4.setFont(**new** Font(**"Calibri"**, 15));  
 lblIy4.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblPmt4 = **new** Label(**"PMT (Annuity Payment)"**);  
 lblPmt4.setLayoutX(10);  
 lblPmt4.setLayoutY(170);  
 lblPmt4.setFont(**new** Font(**"Calibri"**, 15));  
 lblPmt4.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//---------------------------------- Output Label For N Tab -----------------------------//* Label lblResult4 = **new** Label(**"Results"**);  
 lblResult4.setLayoutX(300);  
 lblResult4.setLayoutY(50);  
 lblResult4.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblResult4.setTextFill(Color.***WHITE***); *// Set the color for label* lblResult4.setStyle(**"-fx-background-color:Green; -fx-padding:3px;"**);  
 lblResult4.setPrefSize(290, 20);  
  
 Label lblFv4 = **new** Label(**"FV (Future Value)"**);  
 lblFv4.setLayoutX(300);  
 lblFv4.setLayoutY(80);  
 lblFv4.setFont(**new** Font(**"Calibri"**, 15));  
 lblFv4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFv4.setPrefSize(180, 20);  
  
 Label lblPv4 = **new** Label(**"PV (Present Value)"**);  
 lblPv4.setLayoutX(300);  
 lblPv4.setLayoutY(105);  
 lblPv4.setFont(**new** Font(**"Calibri"**, 15));  
 lblPv4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPv4.setPrefSize(180, 20);  
  
 Label lblNOut4 = **new** Label(**"N (Number of Periods)"**);  
 lblNOut4.setLayoutX(300);  
 lblNOut4.setLayoutY(130);  
 lblNOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOut4.setPrefSize(180, 20);  
  
 Label lblIyOut4 = **new** Label(**"I/Y (Interest Rate)"**);  
 lblIyOut4.setLayoutX(300);  
 lblIyOut4.setLayoutY(155);  
 lblIyOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOut4.setPrefSize(180, 20);  
  
 Label lblPer4 = **new** Label(**"PMT (Periodic Payment)"**);  
 lblPer4.setLayoutX(300);  
 lblPer4.setLayoutY(180);  
 lblPer4.setFont(**new** Font(**"Calibri"**, 15));  
 lblPer4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPer4.setPrefSize(180, 20);  
  
  
 Label lblSi4 = **new** Label(**"Starting Investment"**);  
 lblSi4.setLayoutX(300);  
 lblSi4.setLayoutY(205);  
 lblSi4.setFont(**new** Font(**"Calibri"**, 15));  
 lblSi4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSi4.setPrefSize(180, 20);  
  
 Label lblTp4 = **new** Label(**"Total Principal"**);  
 lblTp4.setLayoutX(300);  
 lblTp4.setLayoutY(230);  
 lblTp4.setFont(**new** Font(**"Calibri"**, 15));  
 lblTp4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTp4.setPrefSize(180, 20);  
  
 Label lblTi4 = **new** Label(**"Total Interest"**);  
 lblTi4.setLayoutX(300);  
 lblTi4.setLayoutY(255);  
 lblTi4.setFont(**new** Font(**"Calibri"**, 15));  
 lblTi4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTi4.setPrefSize(180, 20);  
  
 *//--------------------- Empty Label For Set the Output N Tab -------------------------------//* Label lblFvOut4 = **new** Label();  
 lblFvOut4.setLayoutX(482);  
 lblFvOut4.setLayoutY(80);  
 lblFvOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblFvOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFvOut4.setPrefSize(108, 20);  
 lblFvOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
  
 Label lblPvOut4 = **new** Label();  
 lblPvOut4.setLayoutX(482);  
 lblPvOut4.setLayoutY(105);  
 lblPvOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblPvOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPvOut4.setPrefSize(108, 20);  
 lblPvOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblNOutput4 = **new** Label();  
 lblNOutput4.setLayoutX(482);  
 lblNOutput4.setLayoutY(130);  
 lblNOutput4.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOutput4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOutput4.setPrefSize(108, 20);  
 lblNOutput4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblIyOutput4 = **new** Label();  
 lblIyOutput4.setLayoutX(482);  
 lblIyOutput4.setLayoutY(155);  
 lblIyOutput4.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOutput4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOutput4.setPrefSize(108, 20);  
 lblIyOutput4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPerOut4 = **new** Label();  
 lblPerOut4.setLayoutX(482);  
 lblPerOut4.setLayoutY(180);  
 lblPerOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblPerOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPerOut4.setPrefSize(108, 20);  
 lblPerOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblSiOut4 = **new** Label();  
 lblSiOut4.setLayoutX(482);  
 lblSiOut4.setLayoutY(205);  
 lblSiOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblSiOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSiOut4.setPrefSize(108, 20);  
 lblSiOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTpOut4 = **new** Label();  
 lblTpOut4.setLayoutX(482);  
 lblTpOut4.setLayoutY(230);  
 lblTpOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblTpOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTpOut4.setPrefSize(108, 20);  
 lblTpOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTiOut4 = **new** Label();  
 lblTiOut4.setLayoutX(482);  
 lblTiOut4.setLayoutY(255);  
 lblTiOut4.setFont(**new** Font(**"Calibri"**, 15));  
 lblTiOut4.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTiOut4.setPrefSize(108, 20);  
 lblTiOut4.setAlignment(Pos.***CENTER\_RIGHT***);  
  
  
 *//---------------------------------- TextField For N Tab -------------------------------//* TextField txtFv3 = **new** TextField();  
 txtFv3.setLayoutX(160);  
 txtFv3.setLayoutY(50);  
 txtFv3.setPrefWidth(100);  
  
 TextField txtSp4 = **new** TextField();  
 txtSp4.setLayoutX(160);  
 txtSp4.setLayoutY(90);  
 txtSp4.setPrefWidth(100);  
  
 TextField txtIy4 = **new** TextField();  
 txtIy4.setLayoutX(160);  
 txtIy4.setLayoutY(130);  
 txtIy4.setPrefWidth(100);  
  
 TextField txtPmt4 = **new** TextField();  
 txtPmt4.setLayoutX(160);  
 txtPmt4.setLayoutY(170);  
 txtPmt4.setPrefWidth(100);  
  
 *//--------------------------------- Calculate Button For N Tab -----------------------------------//* Button btnCalN = **new** Button(**"Calculate"**);  
 btnCalN.setLayoutX(110);  
 btnCalN.setLayoutY(250);  
 btnCalN.setPrefSize(120,30);  
 btnCalN.setStyle(**"-fx-font-size:15; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertN = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 btnCalN.setOnAction(event -> {  
 **try** {  
  
 **double** startPrinc = Double.*parseDouble*(txtSp4.getText());  
 **double** interest = Double.*parseDouble*(txtIy4.getText());  
 **double** pmt = Double.*parseDouble*(txtPmt4.getText());  
 **double** futureValue = Double.*parseDouble*(txtFv3.getText());  
  
 **double** noOfPeriods = Math.*log*((futureValue + pmt \* 100 / interest) / (startPrinc + pmt \* 100 / interest)) / (Math.*log*(1 + interest / 100));  
 **double** presentValue = futureValue \* Math.*pow*((1 + (interest / 100)), -noOfPeriods);  
 **double** totalPrincipal = startPrinc + (pmt \* noOfPeriods);  
 **double** totalInterest = futureValue - totalPrincipal;  
  
 lblFvOut4.setText(String.*format*(**"$"** + **"%.2f"**, futureValue));  
 lblPvOut4.setText(String.*format*(**"$"** + **"%.2f"**, presentValue));  
 lblNOutput4.setText(String.*format*(**"%.2f"**, noOfPeriods));  
 lblIyOutput4.setText(String.*format*(**"%.2f"**, interest));  
 lblPerOut4.setText(String.*format*(**"$"** + **"%.2f"**, pmt));  
 lblSiOut4.setText(String.*format*(**"$"** + **"%.2f"**, startPrinc));  
 lblTpOut4.setText(String.*format*(**"$"** + **"%.2f"**, totalPrincipal));  
 lblTiOut4.setText(String.*format*(**"$"** + **"%.2f"**, totalInterest));  
 }**catch** (Exception exception){  
 alertN.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertN.setHeaderText(**"Please Enter Valid Numaric Value"**);  
 alertN.show();  
 }  
  
 });  
  
  
  
  
 AnchorPane ancN = **new** AnchorPane(); *// Creating AnchorPane* ancN.getChildren().addAll(fv3, lblSp4, lblIy4, lblPmt4, txtFv3, txtSp4, txtIy4, txtPmt4, btnCalN, lblTiOut4, lblTi4, lblTpOut4,  
 lblTp4, lblSiOut4, lblSi4, lblPerOut4, lblPer4, lblIyOutput4, lblIyOut4, lblNOutput4, lblNOut4, lblPvOut4, lblPv4,  
 lblFvOut4, lblFv4, lblResult4);  
  
 tabN.setContent(ancN);  
 *//-------------------------------- Start Principal Tab ------------------------------//* Tab tabSp = **new** Tab(**"Start Principal"**);  
 tabSp.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 Label fv4 = **new** Label(**"FV (Future Value)"**);  
 fv4.setLayoutX(46);  
 fv4.setLayoutY(50);  
 fv4.setFont(**new** Font(**"Calibri"**, 15));  
 fv4.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblN5 = **new** Label(**"N (# of Periods)"**);  
 lblN5.setLayoutX(54);  
 lblN5.setLayoutY(90);  
 lblN5.setFont(**new** Font(**"Calibri"**, 15));  
 lblN5.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIy5 = **new** Label(**"I/Y (Interest)"**);  
 lblIy5.setLayoutX(71);  
 lblIy5.setLayoutY(130);  
 lblIy5.setFont(**new** Font(**"Calibri"**, 15));  
 lblIy5.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblPmt5 = **new** Label(**"PMT (Annuity Payment)"**);  
 lblPmt5.setLayoutX(10);  
 lblPmt5.setLayoutY(170);  
 lblPmt5.setFont(**new** Font(**"Calibri"**, 15));  
 lblPmt5.setStyle(**" -fx-font-weight: bold;"**);  
  
 *// Fixed Label* Label lblResult5 = **new** Label(**"Results"**);  
 lblResult5.setLayoutX(300);  
 lblResult5.setLayoutY(50);  
 lblResult5.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblResult5.setTextFill(Color.***WHITE***); *// Set the color for label* lblResult5.setStyle(**"-fx-background-color:Green; -fx-padding:3px;"**);  
 lblResult5.setPrefSize(290, 20);  
  
 Label lblFv5 = **new** Label(**"FV (Future Value)"**);  
 lblFv5.setLayoutX(300);  
 lblFv5.setLayoutY(80);  
 lblFv5.setFont(**new** Font(**"Calibri"**, 15));  
 lblFv5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFv5.setPrefSize(180, 20);  
  
 Label lblPv5 = **new** Label(**"PV (Present Value)"**);  
 lblPv5.setLayoutX(300);  
 lblPv5.setLayoutY(105);  
 lblPv5.setFont(**new** Font(**"Calibri"**, 15));  
 lblPv5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPv5.setPrefSize(180, 20);  
  
 Label lblNOut5 = **new** Label(**"N (Number of Periods)"**);  
 lblNOut5.setLayoutX(300);  
 lblNOut5.setLayoutY(130);  
 lblNOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOut5.setPrefSize(180, 20);  
  
 Label lblIyOut5 = **new** Label(**"I/Y (Interest Rate)"**);  
 lblIyOut5.setLayoutX(300);  
 lblIyOut5.setLayoutY(155);  
 lblIyOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOut5.setPrefSize(180, 20);  
  
 Label lblPer5 = **new** Label(**"PMT (Periodic Payment)"**);  
 lblPer5.setLayoutX(300);  
 lblPer5.setLayoutY(180);  
 lblPer5.setFont(**new** Font(**"Calibri"**, 15));  
 lblPer5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPer5.setPrefSize(180, 20);  
  
  
 Label lblSi5 = **new** Label(**"Starting Investment"**);  
 lblSi5.setLayoutX(300);  
 lblSi5.setLayoutY(205);  
 lblSi5.setFont(**new** Font(**"Calibri"**, 15));  
 lblSi5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSi5.setPrefSize(180, 20);  
  
 Label lblTp5 = **new** Label(**"Total Principal"**);  
 lblTp5.setLayoutX(300);  
 lblTp5.setLayoutY(230);  
 lblTp5.setFont(**new** Font(**"Calibri"**, 15));  
 lblTp5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTp5.setPrefSize(180, 20);  
  
 Label lblTi5 = **new** Label(**"Total Interest"**);  
 lblTi5.setLayoutX(300);  
 lblTi5.setLayoutY(255);  
 lblTi5.setFont(**new** Font(**"Calibri"**, 15));  
 lblTi5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTi5.setPrefSize(180, 20);  
 *//Output Label* Label lblFvOut5 = **new** Label();  
 lblFvOut5.setLayoutX(482);  
 lblFvOut5.setLayoutY(80);  
 lblFvOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblFvOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblFvOut5.setPrefSize(108, 20);  
 lblFvOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPvOut5 = **new** Label();  
 lblPvOut5.setLayoutX(482);  
 lblPvOut5.setLayoutY(105);  
 lblPvOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblPvOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPvOut5.setPrefSize(108, 20);  
 lblPvOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblNOutput5 = **new** Label();  
 lblNOutput5.setLayoutX(482);  
 lblNOutput5.setLayoutY(130);  
 lblNOutput5.setFont(**new** Font(**"Calibri"**, 15));  
 lblNOutput5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblNOutput5.setPrefSize(108, 20);  
 lblNOutput5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblIyOutput5 = **new** Label();  
 lblIyOutput5.setLayoutX(482);  
 lblIyOutput5.setLayoutY(155);  
 lblIyOutput5.setFont(**new** Font(**"Calibri"**, 15));  
 lblIyOutput5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblIyOutput5.setPrefSize(108, 20);  
 lblIyOutput5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPerOut5 = **new** Label();  
 lblPerOut5.setLayoutX(482);  
 lblPerOut5.setLayoutY(180);  
 lblPerOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblPerOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblPerOut5.setPrefSize(108, 20);  
 lblPerOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblSiOut5 = **new** Label();  
 lblSiOut5.setLayoutX(482);  
 lblSiOut5.setLayoutY(205);  
 lblSiOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblSiOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblSiOut5.setPrefSize(108, 20);  
 lblSiOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTpOut5 = **new** Label();  
 lblTpOut5.setLayoutX(482);  
 lblTpOut5.setLayoutY(230);  
 lblTpOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblTpOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTpOut5.setPrefSize(108, 20);  
 lblTpOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTiOut5 = **new** Label();  
 lblTiOut5.setLayoutX(482);  
 lblTiOut5.setLayoutY(255);  
 lblTiOut5.setFont(**new** Font(**"Calibri"**, 15));  
 lblTiOut5.setStyle(**"-fx-background-color:#e1ebe4;"**);  
 lblTiOut5.setPrefSize(108, 20);  
 lblTiOut5.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 *//TextField of Start Principal* TextField txtFv4 = **new** TextField();  
 txtFv4.setLayoutX(160);  
 txtFv4.setLayoutY(50);  
 txtFv4.setPrefWidth(100);  
  
 TextField txtN5 = **new** TextField();  
 txtN5.setLayoutX(160);  
 txtN5.setLayoutY(90);  
 txtN5.setPrefWidth(100);  
  
 TextField txtIy5 = **new** TextField();  
 txtIy5.setLayoutX(160);  
 txtIy5.setLayoutY(130);  
 txtIy5.setPrefWidth(100);  
  
 TextField txtPmt5 = **new** TextField();  
 txtPmt5.setLayoutX(160);  
 txtPmt5.setLayoutY(170);  
 txtPmt5.setPrefWidth(100);  
  
 Button btnCalSp = **new** Button(**"Calculate"**);  
 btnCalSp.setLayoutX(110);  
 btnCalSp.setLayoutY(250);  
 btnCalSp.setPrefSize(120,30);  
 btnCalSp.setStyle(**"-fx-font-size:15; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertSp = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 btnCalSp.setOnAction(event -> {  
 **try** {  
 **double** noPeriods = Double.*parseDouble*(txtN5.getText());  
 **double** interest = Double.*parseDouble*(txtIy5.getText());  
 **double** pmt = Double.*parseDouble*(txtPmt5.getText());  
 **double** futureValue = Double.*parseDouble*(txtFv4.getText());  
  
  
 **double** presentValue = futureValue \* Math.*pow*((1 + (interest / 100)), -noPeriods);  
 **double** startPrinc = (futureValue - ((pmt \* (Math.*pow*(1 + interest / 100, noPeriods) - 1)) / (noPeriods / 100))) / (Math.*pow*(1 + interest / 100, noPeriods));  
 **double** totalPrincipal = startPrinc + (pmt \* noPeriods);  
 **double** totalInterest = futureValue - totalPrincipal;  
  
 lblFvOut5.setText(String.*format*(**"$"** + **"%.2f"**, futureValue));  
 lblPvOut5.setText(String.*format*(**"$"** + **"%.2f"**, presentValue));  
 lblNOutput5.setText(String.*format*(**"%.2f"**, noPeriods));  
 lblIyOutput5.setText(String.*format*(**"%.2f"**, interest));  
 lblPerOut5.setText(String.*format*(**"$"** + **"%.3f"**, pmt));  
 lblSiOut5.setText(String.*format*(**"$"** + **"%.2f"**, startPrinc));  
 lblTpOut5.setText(String.*format*(**"$"** + **"%.2f"**, totalPrincipal));  
 lblTiOut5.setText(String.*format*(**"$"** + **"%.2f"**, totalInterest));  
 }**catch** (Exception exception){  
 alertSp.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertSp.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertSp.show();  
 }  
  
 });  
  
  
 AnchorPane ancSp = **new** AnchorPane(); *// Creating AnchorPane* ancSp.getChildren().addAll(fv4, lblN5, lblIy5, lblPmt5, txtFv4, txtN5, txtIy5, txtPmt5, btnCalSp, lblTiOut5, lblTi5, lblTpOut5,  
 lblTp5, lblSiOut5, lblSi5, lblPerOut5, lblPer5, lblIyOutput5, lblIyOut5, lblNOutput5, lblNOut5, lblPvOut5, lblPv5,  
 lblFvOut5, lblFv5, lblResult5);  
  
 tabSp.setContent(ancSp);  
 *// Keyboard for finance Calculator* VBox keyBord = **new** VBox();  
 keyBord.setPrefSize(200, 280);  
 keyBord.setLayoutX(650);  
 keyBord.setLayoutY(20);  
  
 HBox box1 = **new** HBox();  
 box1.setPrefSize(100, 70);  
 box1.setSpacing(5);  
  
 HBox box2 = **new** HBox();  
 box2.setPrefSize(100, 70);  
 box2.setSpacing(5);  
  
 HBox box3 = **new** HBox();  
 box3.setPrefSize(100, 70);  
 box3.setSpacing(5);  
  
 HBox box4 = **new** HBox();  
 box4.setPrefSize(100, 70);  
 box4.setSpacing(5);  
  
 Button btnNum1 = **new** Button();  
 btnNum1.setText(**"1"**);  
 btnNum1.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum1.setPrefSize(60, 60);  
 btnNum1.setFocusTraversable(**false**);  
 Alert alertNo1 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum1.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum1.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"1"**);  
 }**catch** (Exception exception){  
 alertNo1.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo1.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo1.show();  
 }  
  
 });  
  
 Button btnNum2 = **new** Button();  
 btnNum2.setText(**"2"**);  
 btnNum2.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum2.setPrefSize(60, 60);  
 btnNum2.setFocusTraversable(**false**);  
 Alert alertNo2 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum2.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum2.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"2"**);  
 }**catch** (Exception exception){  
 alertNo2.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo2.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo2.show();  
 }  
  
 });  
  
  
 Button btnNum3 = **new** Button();  
 btnNum3.setText(**"3"**);  
 btnNum3.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum3.setPrefSize(60, 60);  
 btnNum3.setFocusTraversable(**false**);  
 Alert alertNo3 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum3.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum3.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"3"**);  
 }**catch** (Exception exception){  
 alertNo3.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo3.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo3.show();  
 }  
  
 });  
  
 Button btnNum4 = **new** Button();  
 btnNum4.setText(**"4"**);  
 btnNum4.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum4.setPrefSize(60, 60);  
 btnNum4.setFocusTraversable(**false**);  
 Alert alertNo4 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum4.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum4.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"4"**);  
 }**catch** (Exception exception){  
 alertNo4.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo4.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo4.show();  
 }  
  
 });  
  
 Button btnNum5 = **new** Button();  
 btnNum5.setText(**"5"**);  
 btnNum5.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum5.setPrefSize(60, 60);  
 btnNum5.setFocusTraversable(**false**);  
 Alert alertNo5 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum5.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum5.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"5"**);  
 }**catch** (Exception exception){  
 alertNo5.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo5.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo5.show();  
 }  
  
 });  
  
 Button btnNum6 = **new** Button();  
 btnNum6.setText(**"6"**);  
 btnNum6.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum6.setPrefSize(60, 60);  
 btnNum6.setFocusTraversable(**false**);  
 Alert alertNo6 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum6.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum6.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"6"**);  
 }**catch** (Exception exception){  
 alertNo6.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo6.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo6.show();  
 }  
  
 });  
  
 Button btnNum7 = **new** Button();  
 btnNum7.setText(**"7"**);  
 btnNum7.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum7.setPrefSize(60, 60);  
 btnNum7.setFocusTraversable(**false**);  
 Alert alertNo7 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum7.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum7.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"7"**);  
 }**catch** (Exception exception){  
 alertNo7.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo7.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo7.show();  
 }  
  
 });  
  
 Button btnNum8 = **new** Button();  
 btnNum8.setText(**"8"**);  
 btnNum8.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum8.setPrefSize(60, 60);  
 btnNum8.setFocusTraversable(**false**);  
 Alert alertNo8 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"8"**);  
 }**catch** (Exception exception){  
 alertNo8.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo8.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo8.show();  
 }  
  
 });  
  
 Button btnNum9 = **new** Button();  
 btnNum9.setText(**"9"**);  
 btnNum9.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum9.setPrefSize(60, 60);  
 btnNum9.setFocusTraversable(**false**);  
 Alert alertNo9 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"9"**);  
 }**catch** (Exception exception){  
 alertNo9.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo9.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo9.show();  
 }  
  
 });  
  
 Button btnNum0 = **new** Button();  
 btnNum0.setText(**"0"**);  
 btnNum0.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum0.setPrefSize(60, 60);  
 btnNum0.setFocusTraversable(**false**);  
 Alert alertNo0 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum0.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum0.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"0"**);  
 }**catch** (Exception exception){  
 alertNo0.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo0.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo0.show();  
 }  
  
 });  
  
 Button btnPoint = **new** Button();  
 btnPoint.setText(**"."**);  
 btnPoint.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnPoint.setPrefSize(60, 60);  
 btnPoint.setFocusTraversable(**false**);  
 Alert alertPoint = **new** Alert(Alert.AlertType.***ERROR***);  
 btnPoint.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnPoint.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText() + **"."**);  
 }**catch** (Exception exception){  
 alertPoint.setAlertType(Alert.AlertType.***ERROR***);  
 alertPoint.setHeaderText(**"Please Choose Right TextField"**);  
 alertPoint.show();  
 }  
  
 });  
  
 Button btnClear = **new** Button();  
 btnClear.setText(**"C"**);  
 btnClear.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnClear.setPrefSize(60, 60);  
 btnClear.setFocusTraversable(**false**);  
 Alert alertClear = **new** Alert(Alert.AlertType.***ERROR***);  
 btnClear.setOnAction(event -> {  
 **try** {  
 TextField textFinance = (TextField) btnClear.getScene().getFocusOwner();  
 String clear = textFinance.getText().substring(0, textFinance.getText().length() - 1);  
 textFinance.setText(clear);  
 }**catch** (Exception exception){  
 alertClear.setAlertType(Alert.AlertType.***ERROR***);  
 alertClear.setHeaderText(**"Please Choose Right TextField"**);  
 alertClear.show();  
 }  
  
 });  
  
 keyBord.getChildren().addAll(box1, box2, box3, box4);  
 box1.getChildren().addAll(btnNum1, btnNum2, btnNum3);  
 box2.getChildren().addAll(btnNum4, btnNum5, btnNum6);  
 box3.getChildren().addAll(btnNum7, btnNum8, btnNum9);  
 box4.getChildren().addAll(btnClear, btnNum0, btnPoint);  
  
  
 AnchorPane anc = **new** AnchorPane();  
 anc.getChildren().addAll(tabPaneFinance,btnBack,btnHelp,keyBord,btnClose);  
 anc.setPrefSize(900,450);  
 tabPaneFinance.getTabs().addAll(tabFv,tabPmt,tabN,tabSp);  
  
 anc.setStyle(**"-fx-background-color:#6C7A89;"**);  
 Scene sc = **new** Scene(anc);  
 FinanceWindow.setScene(sc);  
 FinanceWindow.show();  
  
 }  
}

# Mortgage.java

**import** javafx.geometry.Pos;  
**import** javafx.scene.Scene;  
**import** javafx.scene.control.\*;  
**import** javafx.scene.layout.AnchorPane;  
**import** javafx.scene.layout.HBox;  
**import** javafx.scene.layout.VBox;  
**import** javafx.scene.paint.Color;  
**import** javafx.scene.text.Font;  
**import** javafx.stage.Stage;  
  
**public class** Mortgage {  
  
 **public static void** MortgageCal(){  
  
 Stage stgMortgage = **new** Stage();  
 stgMortgage.setMaxWidth(1200);  
 stgMortgage.setMaxHeight(600);  
 stgMortgage.setTitle(**"Mortgage Calculator"**);  
  
 Button btnBack = **new** Button(**"Back"**);  
 btnBack.setLayoutX(890);  
 btnBack.setLayoutY(320);  
 btnBack.setPrefSize(100,30);  
 btnBack.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 btnBack.setOnAction(event -> {stgMortgage.close(); *//Back to MainWindow* MainWindow.*FirstWindow*();});  
  
 Button btnClose = **new** Button(**"Close"**);  
 btnClose.setLayoutX(1000);  
 btnClose.setLayoutY(320);  
 btnClose.setPrefSize(100,30);  
 btnClose.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 btnClose.setOnAction(event -> {stgMortgage.close();}); *// Stage Close  
  
 //---------------------- Label for Mortgage Calculator ----------------------------------------//* Label lblHp = **new** Label(**"Home Price"**);  
 lblHp.setLayoutX(50);  
 lblHp.setLayoutY(60);  
 lblHp.setFont(**new** Font(**"Calibri"**, 15));  
 lblHp.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblDp = **new** Label(**"Down payment"**);  
 lblDp.setLayoutX(50);  
 lblDp.setLayoutY(100);  
 lblDp.setFont(**new** Font(**"Calibri"**, 15));  
 lblDp.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblLt = **new** Label(**"Loan Term"**);  
 lblLt.setLayoutX(50);  
 lblLt.setLayoutY(140);  
 lblLt.setFont(**new** Font(**"Calibri"**, 15));  
 lblLt.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblYear = **new** Label(**"years"**);  
 lblYear.setLayoutX(270);  
 lblYear.setLayoutY(140);  
 lblYear.setFont(**new** Font(**"Calibri"**, 15));  
 lblYear.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIr = **new** Label(**"Interest Rate"**);  
 lblIr.setLayoutX(50);  
 lblIr.setLayoutY(180);  
 lblIr.setFont(**new** Font(**"Calibri"**, 15));  
 lblIr.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSd = **new** Label(**"Start Date"**);  
 lblSd.setLayoutX(50);  
 lblSd.setLayoutY(220);  
 lblSd.setFont(**new** Font(**"Calibri"**, 15));  
 lblSd.setStyle(**" -fx-font-weight: bold;"**);  
  
  
 Label lblAnnual = **new** Label(**"Annual Tax & Cost"**);  
 lblAnnual.setLayoutX(175);  
 lblAnnual.setLayoutY(250);  
 lblAnnual.setFont(**new** Font(**"Calibri"**, 15));  
 lblAnnual.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblPt = **new** Label(**"Property Taxes"**);  
 lblPt.setLayoutX(50);  
 lblPt.setLayoutY(270);  
 lblPt.setFont(**new** Font(**"Calibri"**, 15));  
 lblPt.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblHi = **new** Label(**"Home Insurance"**);  
 lblHi.setLayoutX(50);  
 lblHi.setLayoutY(310);  
 lblHi.setFont(**new** Font(**"Calibri"**, 15));  
 lblHi.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblPmi = **new** Label(**"PMI Insurance"**);  
 lblPmi.setLayoutX(50);  
 lblPmi.setLayoutY(350);  
 lblPmi.setFont(**new** Font(**"Calibri"**, 15));  
 lblPmi.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblHoa = **new** Label(**"HOA Fee"**);  
 lblHoa.setLayoutX(50);  
 lblHoa.setLayoutY(390);  
 lblHoa.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoa.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblOther = **new** Label(**"Other Costs"**);  
 lblOther.setLayoutX(50);  
 lblOther.setLayoutY(430);  
 lblOther.setFont(**new** Font(**"Calibri"**, 15));  
 lblOther.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//---------------------------------- Output Label -----------------------------------------------------//* Label lblMp = **new** Label(**"Monthly Pay: $"**);  
 lblMp.setLayoutX(425);  
 lblMp.setLayoutY(50);  
 lblMp.setPrefSize(395,25);  
 lblMp.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblMp.setTextFill(Color.***WHITE***); *// Set the color for label* lblMp.setStyle(**"-fx-background-color:Green; -fx-padding:3px;"**);  
  
  
  
 Label lblMon = **new** Label(**"Monthly"**);  
 lblMon.setLayoutX(640);  
 lblMon.setLayoutY(90);  
 lblMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblMon.setStyle(**"-fx-font-weight: bold"**);  
  
 Label lblTot = **new** Label(**"Total"**);  
 lblTot.setLayoutX(775);  
 lblTot.setLayoutY(90);  
 lblTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblTot.setStyle(**"-fx-font-weight: bold"**);  
  
 Label lblMorPay = **new** Label(**"Mortgage Payment"**);  
 lblMorPay.setLayoutX(425);  
 lblMorPay.setLayoutY(125);  
 lblMorPay.setPrefSize(190, 20);  
 lblMorPay.setFont(**new** Font(**"Calibri"**, 15));  
 lblMorPay.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
  
  
 Label lblMorPayMon = **new** Label();  
 lblMorPayMon.setLayoutX(618);  
 lblMorPayMon.setLayoutY(125);  
 lblMorPayMon.setPrefSize(100, 20);  
 lblMorPayMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblMorPayMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblMorPayMon.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblMorPayTot = **new** Label();  
 lblMorPayTot.setLayoutX(720);  
 lblMorPayTot.setLayoutY(125);  
 lblMorPayTot.setPrefSize(100, 20);  
 lblMorPayTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblMorPayTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblMorPayTot.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblPro = **new** Label(**"Property Tax"**);  
 lblPro.setLayoutX(425);  
 lblPro.setLayoutY(150);  
 lblPro.setMinWidth(165);  
 lblPro.setFont(**new** Font(**"Calibri"**, 15));  
 lblPro.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblProTaxMon = **new** Label();  
 lblProTaxMon.setLayoutX(618);  
 lblProTaxMon.setLayoutY(150);  
 lblProTaxMon.setMinWidth(100);  
 lblProTaxMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblProTaxMon.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblProTaxMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblProTaxTot = **new** Label();  
 lblProTaxTot.setLayoutX(720);  
 lblProTaxTot.setLayoutY(150);  
 lblProTaxTot.setMinWidth(100);  
 lblProTaxTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblProTaxTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblProTaxTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblHoIn = **new** Label(**"Home Insurance"**);  
 lblHoIn.setLayoutX(425);  
 lblHoIn.setLayoutY(175);  
 lblHoIn.setMinWidth(165);  
 lblHoIn.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoIn.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
  
 Label lblHoInMon = **new** Label();  
 lblHoInMon.setLayoutX(618);  
 lblHoInMon.setLayoutY(175);  
 lblHoInMon.setMinWidth(100);  
 lblHoInMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoInMon.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblHoInMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblHoInTot = **new** Label(**" "**);  
 lblHoInTot.setLayoutX(720);  
 lblHoInTot.setLayoutY(175);  
 lblHoInTot.setMinWidth(100);  
 lblHoInTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoInTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblHoInTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
  
 Label lblHoaFee = **new** Label(**"HOA Fee"**);  
 lblHoaFee.setLayoutX(425);  
 lblHoaFee.setLayoutY(200);  
 lblHoaFee.setMinWidth(165);  
 lblHoaFee.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoaFee.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
  
 Label lblHoaFeeMon = **new** Label();  
 lblHoaFeeMon.setLayoutX(618);  
 lblHoaFeeMon.setLayoutY(200);  
 lblHoaFeeMon.setMinWidth(100);  
 lblHoaFeeMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoaFeeMon.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblHoaFeeMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblHoaFeeTot = **new** Label();  
 lblHoaFeeTot.setLayoutX(720);  
 lblHoaFeeTot.setLayoutY(200);  
 lblHoaFeeTot.setMinWidth(100);  
 lblHoaFeeTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblHoaFeeTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblHoaFeeTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblOthCos = **new** Label(**"Other Costs"**);  
 lblOthCos.setLayoutX(425);  
 lblOthCos.setLayoutY(225);  
 lblOthCos.setMinWidth(165);  
 lblOthCos.setFont(**new** Font(**"Calibri"**, 15));  
 lblOthCos.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
  
 Label lblOthCosMon = **new** Label();  
 lblOthCosMon.setLayoutX(618);  
 lblOthCosMon.setLayoutY(225);  
 lblOthCosMon.setMinWidth(100);  
 lblOthCosMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblOthCosMon.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblOthCosMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblOthCosTot = **new** Label();  
 lblOthCosTot.setLayoutX(720);  
 lblOthCosTot.setLayoutY(225);  
 lblOthCosTot.setMinWidth(100);  
 lblOthCosTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblOthCosTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblOthCosTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotOut = **new** Label(**"Total Out-of-Pocket"**);  
 lblTotOut.setLayoutX(425);  
 lblTotOut.setLayoutY(250);  
 lblTotOut.setPrefSize(165, 20);  
 lblTotOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotOutMon = **new** Label(**" "**);  
 lblTotOutMon.setLayoutX(618);  
 lblTotOutMon.setLayoutY(250);  
 lblTotOutMon.setPrefSize(100, 20);  
 lblTotOutMon.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotOutMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotOutMon.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblTotOutMon.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotOutTot = **new** Label(**" "**);  
 lblTotOutTot.setLayoutX(720);  
 lblTotOutTot.setLayoutY(250);  
 lblTotOutTot.setPrefSize(100, 20);  
 lblTotOutTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotOutTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotOutTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblTotOutTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblHouPri = **new** Label(**"House Price"**);  
 lblHouPri.setLayoutX(425);  
 lblHouPri.setLayoutY(300);  
 lblHouPri.setPrefSize(295, 20);  
 lblHouPri.setFont(**new** Font(**"Calibri"**, 15));  
 lblHouPri.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblHouPri.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblHouPriTot = **new** Label(**" "**);  
 lblHouPriTot.setLayoutX(723);  
 lblHouPriTot.setLayoutY(300);  
 lblHouPriTot.setPrefSize(98, 20);  
 lblHouPriTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblHouPriTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblHouPriTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblHouPriTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
  
 Label lblLoAm = **new** Label(**"Loan Amount"**);  
 lblLoAm.setLayoutX(425);  
 lblLoAm.setLayoutY(325);  
 lblLoAm.setMinWidth(275);  
 lblLoAm.setFont(**new** Font(**"Calibri"**, 15));  
 lblLoAm.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblLoAmTot = **new** Label();  
 lblLoAmTot.setLayoutX(723);  
 lblLoAmTot.setLayoutY(325);  
 lblLoAmTot.setPrefSize(100, 20);  
 lblLoAmTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblLoAmTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblLoAmTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblDowPay = **new** Label(**"Down Payment"**);  
 lblDowPay.setLayoutX(425);  
 lblDowPay.setLayoutY(350);  
 lblDowPay.setMinWidth(275);  
 lblDowPay.setFont(**new** Font(**"Calibri"**, 15));  
 lblDowPay.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblDowPayTot = **new** Label();  
 lblDowPayTot.setLayoutX(723);  
 lblDowPayTot.setLayoutY(350);  
 lblDowPayTot.setPrefSize(100, 20);  
 lblDowPayTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblDowPayTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblDowPayTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotMor = **new** Label(**"Total of 360 Mortgage Payments"**);  
 lblTotMor.setLayoutX(425);  
 lblTotMor.setLayoutY(375);  
 lblTotMor.setMinWidth(275);  
 lblTotMor.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotMor.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotMorTot = **new** Label();  
 lblTotMorTot.setLayoutX(723);  
 lblTotMorTot.setLayoutY(375);  
 lblTotMorTot.setPrefSize(100, 20);  
 lblTotMorTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotMorTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblTotMorTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotInt = **new** Label(**"Total Interest"**);  
 lblTotInt.setLayoutX(425);  
 lblTotInt.setLayoutY(400);  
 lblTotInt.setMinWidth(275);  
 lblTotInt.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotInt.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblTotIntTot = **new** Label();  
 lblTotIntTot.setLayoutX(723);  
 lblTotIntTot.setLayoutY(400);  
 lblTotIntTot.setPrefSize(100, 20);  
 lblTotIntTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotIntTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblTotIntTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblMorPayDat = **new** Label(**"Mortgage Payoff Date"**);  
 lblMorPayDat.setLayoutX(425);  
 lblMorPayDat.setLayoutY(425);  
 lblMorPayDat.setMinWidth(275);  
 lblMorPayDat.setFont(**new** Font(**"Calibri"**, 15));  
 lblMorPayDat.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 Label lblMorPayDatTot = **new** Label();  
 lblMorPayDatTot.setLayoutX(723);  
 lblMorPayDatTot.setLayoutY(425);  
 lblMorPayDatTot.setPrefSize(100, 20);  
 lblMorPayDatTot.setFont(**new** Font(**"Calibri"**, 15));  
 lblMorPayDatTot.setAlignment(Pos.***CENTER\_RIGHT***);  
 lblMorPayDatTot.setStyle(**"-fx-font-weight: bold; -fx-background-color:#EEEEEE;"**);  
  
 *// TextField* TextField txtHp = **new** TextField();  
 txtHp.setLayoutX(165);  
 txtHp.setLayoutY(60);  
 txtHp.setPrefWidth(100);  
  
 TextField txtDp = **new** TextField();  
 txtDp.setLayoutX(165);  
 txtDp.setLayoutY(100);  
 txtDp.setPrefWidth(100);  
  
 ComboBox comboDp = **new** ComboBox();  
 comboDp.setLayoutX(270);  
 comboDp.setLayoutY(100);  
 comboDp.setPrefWidth(70);  
 comboDp.setValue(**"%"**);  
 comboDp.getItems().addAll(**"%"**, **"$"**);  
 comboDp.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** downPayment = Double.*parseDouble*(txtDp.getText());  
 **if**(comboDp.getValue() == **"$"**){  
  
 **double** homePriceValue = (downPayment/100) \* homePrice;  
 txtDp.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (downPayment/homePrice) \* 100;  
 txtDp.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
 TextField txtLt = **new** TextField();  
 txtLt.setLayoutX(165);  
 txtLt.setLayoutY(140);  
 txtLt.setPrefWidth(100);  
  
 TextField txtIr = **new** TextField();  
 txtIr.setLayoutX(165);  
 txtIr.setLayoutY(180);  
 txtIr.setPrefWidth(100);  
  
 ComboBox comboBox = **new** ComboBox();  
 comboBox.setLayoutX(165);  
 comboBox.setLayoutY(220);  
 comboBox.setValue(**"Jul"**);  
 **final** String[] month = {**"Jul"**};  
 comboBox.getItems().addAll(**"Jan"**, **"Feb"**, **"Mar"**, **"Apr"**, **"May"**, **"Jun"**, **"Jul"**, **"Aug"**, **"Sep"**, **"Oct"**, **"Nov"**, **"Dec"**);  
  
 comboBox.setOnAction(event -> {  
  
 month[0] = (String) comboBox.getValue();  
 });  
  
 TextField txtYear = **new** TextField(**"2020"**);  
 txtYear.setLayoutX(240);  
 txtYear.setLayoutY(220);  
 txtYear.setPrefWidth(80);  
  
 TextField txtPt = **new** TextField();  
 txtPt.setLayoutX(165);  
 txtPt.setLayoutY(270);  
 txtPt.setPrefWidth(100);  
  
 ComboBox comboPt = **new** ComboBox();  
 comboPt.setLayoutX(270);  
 comboPt.setLayoutY(270);  
 comboPt.setPrefWidth(70);  
 comboPt.setValue(**"%"**);  
 comboPt.getItems().addAll(**"%"**, **"$"**);  
 comboPt.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** propertyTex = Double.*parseDouble*(txtPt.getText());  
 **if**(comboPt.getValue() == **"$"**){  
  
 **double** homePriceValue = (propertyTex/100) \* homePrice;  
 txtPt.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (propertyTex/homePrice) \* 100;  
 txtPt.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
 TextField txtHi = **new** TextField();  
 txtHi.setLayoutX(165);  
 txtHi.setLayoutY(310);  
 txtHi.setPrefWidth(100);  
  
 ComboBox comboHi = **new** ComboBox();  
 comboHi.setLayoutX(270);  
 comboHi.setLayoutY(310);  
 comboHi.setPrefWidth(70);  
 comboHi.setValue(**"$"**);  
 comboHi.getItems().addAll(**"%"**, **"$"**);  
 comboHi.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** homeInsurance = Double.*parseDouble*(txtHi.getText());  
 **if**(comboHi.getValue() == **"$"**){  
  
 **double** homePriceValue = (homeInsurance/100) \* homePrice;  
 txtHi.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (homeInsurance/homePrice) \* 100;  
 txtHi.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
 TextField txtPmi = **new** TextField();  
 txtPmi.setLayoutX(165);  
 txtPmi.setLayoutY(350);  
 txtPmi.setPrefWidth(100);  
  
 ComboBox comboPmi = **new** ComboBox();  
 comboPmi.setLayoutX(270);  
 comboPmi.setLayoutY(350);  
 comboPmi.setPrefWidth(70);  
 comboPmi.setValue(**"$"**);  
 comboPmi.getItems().addAll(**"%"**, **"$"**);  
 comboPmi.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** pmiInsurance = Double.*parseDouble*(txtPmi.getText());  
 **if**(comboPmi.getValue() == **"$"**){  
  
 **double** homePriceValue = (pmiInsurance/100) \* homePrice;  
 txtPmi.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (pmiInsurance/homePrice) \* 100;  
 txtPmi.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
 TextField txtHoa = **new** TextField();  
 txtHoa.setLayoutX(165);  
 txtHoa.setLayoutY(390);  
 txtHoa.setPrefWidth(100);  
  
 ComboBox comboHoa = **new** ComboBox();  
 comboHoa.setLayoutX(270);  
 comboHoa.setLayoutY(390);  
 comboHoa.setPrefWidth(70);  
 comboHoa.setValue(**"%"**);  
 comboHoa.getItems().addAll(**"%"**, **"$"**);  
 comboHoa.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** hoaFee = Double.*parseDouble*(txtHoa.getText());  
 **if**(comboHoa.getValue() == **"$"**){  
  
 **double** homePriceValue = (hoaFee/100) \* homePrice;  
 txtHoa.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (hoaFee/homePrice) \* 100;  
 txtHoa.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
  
 TextField txtOther = **new** TextField();  
 txtOther.setLayoutX(165);  
 txtOther.setLayoutY(430);  
 txtOther.setPrefWidth(100);  
  
 ComboBox comboOther = **new** ComboBox();  
 comboOther.setLayoutX(270);  
 comboOther.setLayoutY(430);  
 comboOther.setPrefWidth(70);  
 comboOther.setValue(**"$"**);  
 comboOther.getItems().addAll(**"%"**, **"$"**);  
 comboOther.setOnAction(event -> {  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** otherCost = Double.*parseDouble*(txtOther.getText());  
 **if**(comboOther.getValue() == **"$"**){  
  
 **double** homePriceValue = (otherCost/100) \* homePrice;  
 txtOther.setText(String.*valueOf*(homePriceValue));  
 }**else** {  
 **double** homePriceValue = (otherCost/homePrice) \* 100;  
 txtOther.setText(String.*valueOf*(homePriceValue));  
 }  
  
 });  
  
 *//Button for Calculate* Button btnCal = **new** Button(**"Calculate"**);  
 btnCal.setLayoutX(140);  
 btnCal.setLayoutY(490);  
 btnCal.setPrefSize(120,30);  
 btnCal.setStyle(**"-fx-font-size:15;-fx-font-color:white; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertMor = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 btnCal.setOnAction(event -> {  
 **try** {  
  
 **double** homePrice = Double.*parseDouble*(txtHp.getText());  
 **double** interestRate = Double.*parseDouble*(txtIr.getText());  
 **double** loanTerm = Double.*parseDouble*(txtLt.getText());  
 **double** downPay = Double.*parseDouble*(txtDp.getText());  
 **if** (comboDp.getValue() == **"%"**) {  
 downPay = (downPay / 100) \* homePrice;  
 }  
  
 **double** homeInsurance = Double.*parseDouble*(txtHi.getText());  
 **if** (comboHi.getValue() == **"%"**) {  
 homeInsurance = (homeInsurance / 100) \* homePrice;  
 }  
  
 **double** otherCost = Double.*parseDouble*(txtOther.getText());  
 **if** (comboOther.getValue() == **"%"**) {  
 otherCost = (otherCost / 100) \* homePrice;  
 }  
  
 **double** propertyTax = Double.*parseDouble*(txtPt.getText());  
 **if** (comboPt.getValue() == **"%"**) {  
 propertyTax = (propertyTax / 100) \* homePrice;  
 }  
 **double** hoaFees = Double.*parseDouble*(txtHoa.getText());  
  
  
 **double** year = Double.*parseDouble*(txtYear.getText());  
  
  
 **double** loanAmount = homePrice - downPay;  
 **double** monthlyPay = ((interestRate / 100) / 12 \* loanAmount) / (1 - Math.*pow*((1 + (interestRate / 100) / 12), -12 \* loanTerm));  
 **double** mortgageTotPay = (loanTerm \* 12) \* monthlyPay;  
 **double** propertyTaxOut = propertyTax / 12;  
 **double** propTaxTot = propertyTaxOut \* (loanTerm \* 12);  
 **double** homeInsOut = homeInsurance / 12;  
 **double** homInsTot = homeInsOut \* (loanTerm \* 12);  
 **double** otherCostOut = otherCost / 12;  
 **double** otherTot = otherCostOut \* (loanTerm \* 12);  
 **double** totalInterest = mortgageTotPay - loanAmount;  
 **double** totM = loanTerm \* 12;  
 **double** hoaFeesOut = hoaFees / 12;  
 **double** hoaFeeTot = hoaFeesOut \* (loanTerm \* 12);  
 **double** outOfMon = monthlyPay + propertyTaxOut + homeInsOut + otherCostOut + hoaFeesOut;  
 **double** outOfTot = mortgageTotPay + propTaxTot + homInsTot + otherTot + hoaFeeTot;  
 **int** date = (**int**) (year + loanTerm);  
  
 lblMp.setText(String.*format*(**"Monthly Pay: $ "** + **"%.2f"**, monthlyPay));  
 lblHouPriTot.setText(String.*format*(**"$"** + **"%.2f"**, homePrice)); *// House Price* lblDowPayTot.setText(String.*format*(**"$"** + **"%.2f"**, downPay)); *// Down Payment* lblLoAmTot.setText(String.*format*(**"$"** + **"%.2f"**, loanAmount)); *// Loan Amount* lblMorPayMon.setText(String.*format*(**"$"** + **"%.2f"**, monthlyPay)); *// Mortgage Monthly Pay* lblMorPayTot.setText(String.*format*(**"$"** + **"%.2f"**, mortgageTotPay)); *// Total Mortgage Pay* lblProTaxMon.setText(String.*format*(**"$"** + **"%.2f"**, propertyTaxOut)); *// Month Property Tax* lblProTaxTot.setText(String.*format*(**"$"** + **"%.2f"**, propTaxTot)); *// Total Property Tax* lblHoInMon.setText(String.*format*(**"$"** + **"%.2f"**, homeInsOut)); *// Monthly Home Insurance* lblHoInTot.setText(String.*format*(**"$"** + **"%.2f"**, homInsTot)); *// Total Home Insurance* lblOthCosMon.setText(String.*format*(**"$"** + **"%.2f"**, otherCostOut)); *// Monthly Other Cost* lblOthCosTot.setText(String.*format*(**"$"** + **"%.2f"**, otherTot)); *// Total other Cost* lblTotIntTot.setText(String.*format*(**"$"** + **"%.2f"**, totalInterest)); *// Total Interest* lblTotMorTot.setText(String.*format*(**"$"** + **"%.2f"**, mortgageTotPay)); *// Total of Mor* lblTotMor.setText(String.*format*(**"Total of "** + (**int**) totM + **" Mortgage Payments"**));  
 lblTotOutMon.setText(String.*format*(**"$"** + **"%.2f"**, outOfMon));  
 lblTotOutTot.setText(String.*format*(**"$"** + **"%.2f"**, outOfTot));  
 lblHoaFeeMon.setText(String.*format*(**"$"** + **"%.2f"**, hoaFeesOut));  
 lblHoaFeeTot.setText(String.*format*(**"$"** + **"%.2f"**, hoaFeeTot));  
 lblMorPayDatTot.setText(month[0] + **" "** + date);  
 }**catch** (Exception exception){  
 alertMor.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertMor.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertMor.show();  
 }  
 });  
  
  
  
  
 AnchorPane ancMor = **new** AnchorPane();  
 ancMor.setPrefSize(1000,500);  
 ancMor.getChildren().addAll(lblHp, lblDp, lblLt, lblYear, lblIr,txtYear, lblSd, lblPt, lblHi, lblPmi, lblHoa, lblOther,  
 txtHp, txtDp, comboDp, txtLt, txtIr, comboBox, txtPt, txtHi, txtPmi, txtHoa, txtOther, comboHi,  
 comboHoa, comboOther, comboPmi, comboPt, lblAnnual, btnCal,  
 lblMp, lblMon, lblTot, lblMorPay, lblMorPayMon, lblMorPayTot, lblPro, lblProTaxMon, lblProTaxTot, lblHoIn, lblHoInMon,  
 lblHoInTot, lblHoaFee, lblHoaFeeMon, lblHoaFeeTot, lblOthCos, lblOthCosMon, lblOthCosTot, lblTotOut, lblTotOutMon, lblTotOutTot,  
 lblHouPri, lblHouPriTot, lblLoAm, lblLoAmTot, lblDowPay, lblDowPayTot, lblTotMor, lblTotMorTot, lblTotInt, lblTotIntTot,  
 lblMorPayDat, lblMorPayDatTot);  
  
 *// Keyboard for finance Calculator  
 // Keyboard for finance Calculator* VBox keyBord = **new** VBox();  
 keyBord.setPrefSize(200, 280);  
 keyBord.setLayoutX(900);  
 keyBord.setLayoutY(40);  
  
 HBox box1 = **new** HBox();  
 box1.setPrefSize(100, 70);  
 box1.setSpacing(5);  
  
 HBox box2 = **new** HBox();  
 box2.setPrefSize(100, 70);  
 box2.setSpacing(5);  
  
 HBox box3 = **new** HBox();  
 box3.setPrefSize(100, 70);  
 box3.setSpacing(5);  
  
 HBox box4 = **new** HBox();  
 box4.setPrefSize(100, 70);  
 box4.setSpacing(5);  
  
 Button btnNum1 = **new** Button();  
 btnNum1.setText(**"1"**);  
 btnNum1.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum1.setPrefSize(60, 60);  
 btnNum1.setFocusTraversable(**false**);  
 Alert alertNo1 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum1.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum1.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"1"**);  
 }**catch** (Exception exception){  
 alertNo1.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo1.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo1.show();  
 }  
  
 });  
  
 Button btnNum2 = **new** Button();  
 btnNum2.setText(**"2"**);  
 btnNum2.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum2.setPrefSize(60, 60);  
 btnNum2.setFocusTraversable(**false**);  
 Alert alertNo2 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum2.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum2.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"2"**);  
 }**catch** (Exception exception){  
 alertNo2.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo2.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo2.show();  
 }  
  
 });  
  
  
 Button btnNum3 = **new** Button();  
 btnNum3.setText(**"3"**);  
 btnNum3.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum3.setPrefSize(60, 60);  
 btnNum3.setFocusTraversable(**false**);  
 Alert alertNo3 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum3.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum3.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"3"**);  
 }**catch** (Exception exception){  
 alertNo3.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo3.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo3.show();  
 }  
  
 });  
  
 Button btnNum4 = **new** Button();  
 btnNum4.setText(**"4"**);  
 btnNum4.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum4.setPrefSize(60, 60);  
 btnNum4.setFocusTraversable(**false**);  
 Alert alertNo4 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum4.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum4.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"4"**);  
 }**catch** (Exception exception){  
 alertNo4.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo4.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo4.show();  
 }  
  
 });  
  
 Button btnNum5 = **new** Button();  
 btnNum5.setText(**"5"**);  
 btnNum5.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum5.setPrefSize(60, 60);  
 btnNum5.setFocusTraversable(**false**);  
 Alert alertNo5 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum5.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum5.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"5"**);  
 }**catch** (Exception exception){  
 alertNo5.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo5.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo5.show();  
 }  
  
 });  
  
 Button btnNum6 = **new** Button();  
 btnNum6.setText(**"6"**);  
 btnNum6.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum6.setPrefSize(60, 60);  
 btnNum6.setFocusTraversable(**false**);  
 Alert alertNo6 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum6.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum6.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"6"**);  
 }**catch** (Exception exception){  
 alertNo6.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo6.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo6.show();  
 }  
  
 });  
  
 Button btnNum7 = **new** Button();  
 btnNum7.setText(**"7"**);  
 btnNum7.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum7.setPrefSize(60, 60);  
 btnNum7.setFocusTraversable(**false**);  
 Alert alertNo7 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum7.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum7.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"7"**);  
 }**catch** (Exception exception){  
 alertNo7.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo7.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo7.show();  
 }  
  
 });  
  
 Button btnNum8 = **new** Button();  
 btnNum8.setText(**"8"**);  
 btnNum8.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum8.setPrefSize(60, 60);  
 btnNum8.setFocusTraversable(**false**);  
 Alert alertNo8 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"8"**);  
 }**catch** (Exception exception){  
 alertNo8.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo8.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo8.show();  
 }  
  
 });  
  
 Button btnNum9 = **new** Button();  
 btnNum9.setText(**"9"**);  
 btnNum9.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum9.setPrefSize(60, 60);  
 btnNum9.setFocusTraversable(**false**);  
 Alert alertNo9 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"9"**);  
 }**catch** (Exception exception){  
 alertNo9.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo9.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo9.show();  
 }  
  
 });  
  
 Button btnNum0 = **new** Button();  
 btnNum0.setText(**"0"**);  
 btnNum0.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum0.setPrefSize(60, 60);  
 btnNum0.setFocusTraversable(**false**);  
 Alert alertNo0 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum0.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum0.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"0"**);  
 }**catch** (Exception exception){  
 alertNo0.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo0.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo0.show();  
 }  
  
 });  
  
 Button btnPoint = **new** Button();  
 btnPoint.setText(**"."**);  
 btnPoint.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnPoint.setPrefSize(60, 60);  
 btnPoint.setFocusTraversable(**false**);  
 Alert alertPoint = **new** Alert(Alert.AlertType.***ERROR***);  
 btnPoint.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnPoint.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText() + **"."**);  
 }**catch** (Exception exception){  
 alertPoint.setAlertType(Alert.AlertType.***ERROR***);  
 alertPoint.setHeaderText(**"Please Choose Right TextField"**);  
 alertPoint.show();  
 }  
  
 });  
  
 Button btnClear = **new** Button();  
 btnClear.setText(**"C"**);  
 btnClear.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnClear.setPrefSize(60, 60);  
 btnClear.setFocusTraversable(**false**);  
 Alert alertClear = **new** Alert(Alert.AlertType.***ERROR***);  
 btnClear.setOnAction(event -> {  
 **try** {  
 TextField textFinance = (TextField) btnClear.getScene().getFocusOwner();  
 String clear = textFinance.getText().substring(0, textFinance.getText().length() - 1);  
 textFinance.setText(clear);  
 }**catch** (Exception exception){  
 alertClear.setAlertType(Alert.AlertType.***ERROR***);  
 alertClear.setHeaderText(**"Please Choose Right TextField"**);  
 alertClear.show();  
 }  
  
 });  
  
  
  
 keyBord.getChildren().addAll(box1, box2, box3, box4);  
 box1.getChildren().addAll(btnNum1, btnNum2, btnNum3);  
 box2.getChildren().addAll(btnNum4, btnNum5, btnNum6);  
 box3.getChildren().addAll(btnNum7, btnNum8, btnNum9);  
 box4.getChildren().addAll(btnClear, btnNum0, btnPoint);  
  
  
  
 AnchorPane anc = **new** AnchorPane();  
 anc.getChildren().addAll(ancMor,keyBord,btnBack,btnClose); *// exit,help,vbox* anc.setPrefSize(1200,600);  
 anc.setStyle(**"-fx-background-color:#6C7A89;"**);  
 Scene sc = **new** Scene(anc);  
 stgMortgage.setScene(sc);  
 stgMortgage.show();  
 }  
}

# AutoLoan.java

**import** javafx.geometry.Pos;  
**import** javafx.scene.Scene;  
**import** javafx.scene.control.\*;  
**import** javafx.scene.control.Button;  
**import** javafx.scene.control.Label;  
**import** javafx.scene.control.TextField;  
**import** javafx.scene.layout.AnchorPane;  
**import** javafx.scene.layout.HBox;  
**import** javafx.scene.layout.VBox;  
**import** javafx.scene.paint.Color;  
**import** javafx.scene.text.Font;  
**import** javafx.stage.Stage;  
  
  
**public class** AutoLoan {  
 **public static void** AutoLoanCal() {  
  
 Stage stgAutoLoan = **new** Stage();  
 stgAutoLoan.setMaxWidth(1100);  
 stgAutoLoan.setMaxHeight(550);  
 stgAutoLoan.setTitle(**"AutoLoan Calculator"**);  
  
 Button btnBack = **new** Button(**"Back"**);  
 btnBack.setLayoutX(790);  
 btnBack.setLayoutY(350);  
 btnBack.setPrefSize(100,30);  
 btnBack.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 btnBack.setOnAction(event -> {stgAutoLoan.close();  
 MainWindow.*FirstWindow*();});  
  
 Button btnClose = **new** Button(**"Close"**);  
 btnClose.setLayoutX(900);  
 btnClose.setLayoutY(350);  
 btnClose.setPrefSize(100,30);  
 btnClose.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
  
 btnClose.setOnAction(event -> {stgAutoLoan.close();});  
  
 *//------------------------ Creating TabPane for Loan Calculator -----------------------------//* TabPane tabLoan = **new** TabPane();  
 tabLoan.setPrefSize(750, 600);  
 tabLoan.setStyle(**"-fx-background-color:#6C7A89;"**);  
 tabLoan.setTabClosingPolicy(TabPane.TabClosingPolicy.***UNAVAILABLE***);  
  
 *//----------------------- Total price tab --------------------------------------------------//* Tab tabTotalPrice = **new** Tab(**"Total Price"**);  
 tabTotalPrice.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 *//------------------------ Label of Total Price Tab ---------------------------------------//* Label lblAutoPrice = **new** Label(**"Auto Price"**);  
 lblAutoPrice.setLayoutX(40);  
 lblAutoPrice.setLayoutY(50);  
 lblAutoPrice.setFont(**new** Font(**"Calibri"**, 15));  
 lblAutoPrice.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblLoanTerm = **new** Label(**"Loan Term"**);  
 lblLoanTerm.setLayoutX(40);  
 lblLoanTerm.setLayoutY(90);  
 lblLoanTerm.setFont(**new** Font(**"Calibri"**, 15));  
 lblLoanTerm.setStyle(**" -fx-font-weight: bold;"**);  
  
  
 Label lblIr = **new** Label(**"Interest Rate"**);  
 lblIr.setLayoutX(40);  
 lblIr.setLayoutY(130);  
 lblIr.setFont(**new** Font(**"Calibri"**, 15));  
 lblIr.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblDownPay = **new** Label(**"Down Payment"**);  
 lblDownPay.setLayoutX(40);  
 lblDownPay.setLayoutY(170);  
 lblDownPay.setFont(**new** Font(**"Calibri"**, 15));  
 lblDownPay.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblTradVal = **new** Label(**"Trade-in Value"**);  
 lblTradVal.setLayoutX(40);  
 lblTradVal.setLayoutY(210);  
 lblTradVal.setFont(**new** Font(**"Calibri"**, 15));  
 lblTradVal.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblYState = **new** Label(**"Your State"**);  
 lblYState.setLayoutX(40);  
 lblYState.setLayoutY(250);  
 lblYState.setFont(**new** Font(**"Calibri"**, 15));  
 lblYState.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSalTex = **new** Label(**"Sales Tex"**);  
 lblSalTex.setLayoutX(40);  
 lblSalTex.setLayoutY(290);  
 lblSalTex.setFont(**new** Font(**"Calibri"**, 15));  
 lblSalTex.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblTitle = **new** Label(**"Title, Registration\nand Other Fees"**);  
 lblTitle.setLayoutX(40);  
 lblTitle.setLayoutY(330);  
 lblTitle.setFont(**new** Font(**"Calibri"**, 15));  
 lblTitle.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//------------------------------- Label for Output Total Price Tab ----------------------------------//* Label lblMpOut = **new** Label(**" Monthly Pay: $"**);  
 lblMpOut.setLayoutX(350);  
 lblMpOut.setLayoutY(50);  
 lblMpOut.setPrefSize(385, 25);  
 lblMpOut.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblMpOut.setTextFill(Color.***WHITE***); *// Set the color for label* lblMpOut.setStyle(**"-fx-background-color:Green; -fx-font-weight: bold; -fx-padding:3px;"**);  
  
  
 Label lblTl = **new** Label(**"Total Loan Amount"**);  
 lblTl.setLayoutX(350);  
 lblTl.setLayoutY(80);  
 lblTl.setMinWidth(275);  
 lblTl.setFont(**new** Font(**"Calibri"**, 15));  
 lblTl.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblSt = **new** Label(**"Sale Tax"**);  
 lblSt.setLayoutX(350);  
 lblSt.setLayoutY(105);  
 lblSt.setMinWidth(275);  
 lblSt.setFont(**new** Font(**"Calibri"**, 15));  
 lblSt.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblUp = **new** Label(**"Upfront Payment"**);  
 lblUp.setLayoutX(350);  
 lblUp.setLayoutY(130);  
 lblUp.setMinWidth(275);  
 lblUp.setFont(**new** Font(**"Calibri"**, 15));  
 lblUp.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTotLoPay = **new** Label(**"Total of 60 Loan Payments"**);  
 lblTotLoPay.setLayoutX(350);  
 lblTotLoPay.setLayoutY(155);  
 lblTotLoPay.setMinWidth(275);  
 lblTotLoPay.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotLoPay.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
  
 Label lblTotLoIn = **new** Label(**"Total Loan Interest"**);  
 lblTotLoIn.setLayoutX(350);  
 lblTotLoIn.setLayoutY(180);  
 lblTotLoIn.setMinWidth(275);  
 lblTotLoIn.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotLoIn.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
  
 Label lblTc = **new** Label(**"Total Cost (price, interest, tax, fees)"**);  
 lblTc.setLayoutX(350);  
 lblTc.setLayoutY(205);  
 lblTc.setMinWidth(275);  
 lblTc.setFont(**new** Font(**"Calibri"**, 15));  
 lblTc.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTlOut = **new** Label();  
 lblTlOut.setLayoutX(635);  
 lblTlOut.setLayoutY(80);  
 lblTlOut.setMinWidth(100);  
 lblTlOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTlOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTlOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblStOut = **new** Label();  
 lblStOut.setLayoutX(635);  
 lblStOut.setLayoutY(105);  
 lblStOut.setMinWidth(100);  
 lblStOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblStOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblStOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblUpOut = **new** Label();  
 lblUpOut.setLayoutX(635);  
 lblUpOut.setLayoutY(130);  
 lblUpOut.setMinWidth(100);  
 lblUpOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblUpOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblUpOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTotLoPayOut = **new** Label();  
 lblTotLoPayOut.setLayoutX(635);  
 lblTotLoPayOut.setLayoutY(155);  
 lblTotLoPayOut.setMinWidth(100);  
 lblTotLoPayOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotLoPayOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotLoPayOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
  
 Label lblTotLoInOut = **new** Label();  
 lblTotLoInOut.setLayoutX(635);  
 lblTotLoInOut.setLayoutY(180);  
 lblTotLoInOut.setMinWidth(100);  
 lblTotLoInOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTotLoInOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotLoInOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTcOut = **new** Label();  
 lblTcOut.setLayoutX(635);  
 lblTcOut.setLayoutY(205);  
 lblTcOut.setMinWidth(100);  
 lblTcOut.setFont(**new** Font(**"Calibri"**, 15));  
 lblTcOut.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTcOut.setAlignment(Pos.***CENTER\_RIGHT***);  
  
  
 *//------------------------------------- TextField For Total Price Tab ------------------------------//* TextField txtAp = **new** TextField();  
 txtAp.setLayoutX(145);  
 txtAp.setLayoutY(50);  
 txtAp.setPrefWidth(100);  
  
 TextField txtLt = **new** TextField();  
 txtLt.setLayoutX(145);  
 txtLt.setLayoutY(90);  
 txtLt.setPrefWidth(100);  
  
 TextField txtIr = **new** TextField();  
 txtIr.setLayoutX(145);  
 txtIr.setLayoutY(130);  
 txtIr.setPrefWidth(100);  
  
 TextField txtDp = **new** TextField();  
 txtDp.setLayoutX(145);  
 txtDp.setLayoutY(170);  
 txtDp.setPrefWidth(100);  
  
 TextField txtTv = **new** TextField();  
 txtTv.setLayoutX(145);  
 txtTv.setLayoutY(210);  
 txtTv.setPrefWidth(100);  
  
 ComboBox comboSt = **new** ComboBox();  
 comboSt.setLayoutX(145);  
 comboSt.setLayoutY(250);  
 comboSt.setPrefWidth(120);  
 comboSt.setValue(**"--Select--"**);  
 comboSt.getItems().addAll(**"--Select--"**, **"Califorina"**, **"Colombo"**, **"kandy"**, **"Trincomalee"**, **"Kinniya"**);  
  
 TextField txtSt = **new** TextField();  
 txtSt.setLayoutX(145);  
 txtSt.setLayoutY(290);  
 txtSt.setPrefWidth(100);  
  
 TextField txtTitle = **new** TextField();  
 txtTitle.setLayoutX(145);  
 txtTitle.setLayoutY(330);  
 txtTitle.setPrefWidth(100);  
  
 *//--------------------------------- Calculate Button For Total Price Tab----------------------//* Button btnCalTp = **new** Button(**"Calculate"**);  
 btnCalTp.setLayoutX(90);  
 btnCalTp.setLayoutY(390);  
 btnCalTp.setPrefSize(120,30);  
 btnCalTp.setStyle(**"-fx-font-size:15;-fx-font-color:white; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertTp = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
  
 btnCalTp.setOnAction(event -> {  
 **try** {  
  
 *//------------------------- Assigning Variable to TextField-----------------------------------//* **double** autoPrice = Double.*parseDouble*(txtAp.getText());  
 **double** downPay = Double.*parseDouble*(txtDp.getText());  
 **double** salesTex = Double.*parseDouble*(txtSt.getText());  
 **double** titleFee = Double.*parseDouble*(txtTitle.getText());  
 **double** interestRate = Double.*parseDouble*(txtIr.getText());  
 **double** loanTerm = Double.*parseDouble*(txtLt.getText());  
 **double** tradeValue = Double.*parseDouble*(txtTv.getText());  
  
 *//------------------------ Formulas for Auto Price Tab ------------------------------------//* **double** totLoanAmount = autoPrice - downPay;  
 **double** salTex = (salesTex / 100) \* autoPrice;  
 **double** upFront = downPay + salTex + titleFee;  
 **double** monthPay = ((interestRate / 100) / 12 \* (autoPrice - downPay - tradeValue)) / (1 - Math.*pow*((1 + (interestRate / 100) / 12), -loanTerm));  
 **double** totLoanPay = loanTerm \* monthPay;  
 **double** totLoanInterest = totLoanPay - totLoanAmount;  
 **double** totCost = autoPrice + totLoanInterest + salTex + titleFee;  
  
 *//---------------------- Setting Output into Variable ------------------------------------//* lblTlOut.setText(String.*format*(**"%.2f"**, totLoanAmount));*//* lblStOut.setText(String.*format*(**"$"** + **"%.2f"**, salTex));*//* lblUpOut.setText(String.*format*(**"$"** + **"%.2f"**, upFront));*//* lblMpOut.setText(String.*format*(**"Monthly Pay: $"** + **"%.2f"**, monthPay));*//* lblTotLoPayOut.setText(String.*format*(**"$"** + **"%.2f"**, totLoanPay));  
 lblTotLoInOut.setText(String.*format*(**"$"** + **"%.2f"**, totLoanInterest));  
 lblTcOut.setText(String.*format*(**"$"** + **"%.2f"**, totCost));  
 lblTotLoPay.setText(String.*format*(**"Total of "** + (**int**) loanTerm + **"Loan Payments"**));  
 }**catch** (Exception exception){  
 alertTp.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertTp.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertTp.show();  
 }  
  
  
 });  
  
 AnchorPane ancAutoTp = **new** AnchorPane();  
 ancAutoTp.getChildren().addAll(lblAutoPrice, lblLoanTerm, lblIr, lblDownPay, lblTradVal,  
 lblYState, lblSalTex, lblTitle,  
 txtAp, txtLt, txtIr, txtDp, txtTv, txtSt, comboSt, txtTitle, lblTl, lblSt, lblMpOut, btnCalTp,  
 lblUp, lblTotLoPay, lblTotLoIn, lblTc, lblTlOut, lblStOut, lblUpOut, lblTotLoPayOut, lblTotLoInOut, lblTcOut);  
  
 tabTotalPrice.setContent(ancAutoTp);  
  
 *//-------------------------- Monthly Pay Tab --------------------------------------------------//* Tab tabMonthlyPay = **new** Tab(**"Monthly Payment"**);  
 tabMonthlyPay.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;"**);  
  
 *//--------------------------- Label of Monthly Payment Tab ---------------------------------------//* Label lblMonth = **new** Label(**"Monthly pay"**);  
 lblMonth.setLayoutX(40);  
 lblMonth.setLayoutY(50);  
 lblMonth.setFont(**new** Font(**"Calibri"**, 15));  
 lblMonth.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblLoanTerm2 = **new** Label(**"Loan Term"**);  
 lblLoanTerm2.setLayoutX(40);  
 lblLoanTerm2.setLayoutY(90);  
 lblLoanTerm2.setFont(**new** Font(**"Calibri"**, 15));  
 lblLoanTerm2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblIr2 = **new** Label(**"Interest Rate"**);  
 lblIr2.setLayoutX(40);  
 lblIr2.setLayoutY(130);  
 lblIr2.setFont(**new** Font(**"Calibri"**, 15));  
 lblIr2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblDownPay2 = **new** Label(**"Down Payment"**);  
 lblDownPay2.setLayoutX(40);  
 lblDownPay2.setLayoutY(170);  
 lblDownPay2.setFont(**new** Font(**"Calibri"**, 15));  
 lblDownPay2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblTradVal2 = **new** Label(**"Trade-in Value"**);  
 lblTradVal2.setLayoutX(40);  
 lblTradVal2.setLayoutY(210);  
 lblTradVal2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTradVal2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblYState2 = **new** Label(**"Your State"**);  
 lblYState2.setLayoutX(40);  
 lblYState2.setLayoutY(250);  
 lblYState2.setFont(**new** Font(**"Calibri"**, 15));  
 lblYState2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblSalTex2 = **new** Label(**"Sales Tex"**);  
 lblSalTex2.setLayoutX(40);  
 lblSalTex2.setLayoutY(290);  
 lblSalTex2.setFont(**new** Font(**"Calibri"**, 15));  
 lblSalTex2.setStyle(**" -fx-font-weight: bold;"**);  
  
 Label lblTitle2 = **new** Label(**"Title, Registration\nand Other Fees"**);  
 lblTitle2.setLayoutX(40);  
 lblTitle2.setLayoutY(330);  
 lblTitle2.setFont(**new** Font(**"Calibri"**, 15));  
 lblTitle2.setStyle(**" -fx-font-weight: bold;"**);  
  
 *//---------------------------------------- Output Label For Monthly Price Tab --------------------------//* Label lblVehPrice = **new** Label(**" Vehicle Price: $"**);  
 lblVehPrice.setLayoutX(350);  
 lblVehPrice.setLayoutY(50);  
 lblVehPrice.setPrefSize(385, 25);  
 lblVehPrice.setFont(**new** Font(**"Arial"**, 18)); *// set the font* lblVehPrice.setTextFill(Color.***WHITE***); *// Set the color for label* lblVehPrice.setStyle(**"-fx-background-color:Green;-fx-font-weight: bold; -fx-padding:3px;"**);  
  
 Label lblTl2 = **new** Label(**"Total Loan Amount"**);  
 lblTl2.setLayoutX(350);  
 lblTl2.setLayoutY(80);  
 lblTl2.setMinWidth(275);  
 lblTl2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblSt2 = **new** Label(**"Sale Tax"**);  
 lblSt2.setLayoutX(350);  
 lblSt2.setLayoutY(105);  
 lblSt2.setMinWidth(275);  
 lblSt2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblUp2 = **new** Label(**"Upfront Payment"**);  
 lblUp2.setLayoutX(350);  
 lblUp2.setLayoutY(130);  
 lblUp2.setMinWidth(275);  
 lblUp2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTotLoPay2 = **new** Label(**"Total of 60 Loan Payments"**);  
 lblTotLoPay2.setLayoutX(350);  
 lblTotLoPay2.setLayoutY(155);  
 lblTotLoPay2.setMinWidth(275);  
 lblTotLoPay2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTotLoIn2 = **new** Label(**"Total Loan Interest"**);  
 lblTotLoIn2.setLayoutX(350);  
 lblTotLoIn2.setLayoutY(180);  
 lblTotLoIn2.setMinWidth(275);  
 lblTotLoIn2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTc2 = **new** Label(**"Total Cost (price, interest, tax, fees)"**);  
 lblTc2.setLayoutX(350);  
 lblTc2.setLayoutY(205);  
 lblTc2.setMinWidth(275);  
 lblTc2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
  
 Label lblTlOut2 = **new** Label();  
 lblTlOut2.setLayoutX(635);  
 lblTlOut2.setLayoutY(80);  
 lblTlOut2.setMinWidth(100);  
 lblTlOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTlOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblStOut2 = **new** Label();  
 lblStOut2.setLayoutX(635);  
 lblStOut2.setLayoutY(105);  
 lblStOut2.setMinWidth(100);  
 lblStOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblStOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblUpOut2 = **new** Label();  
 lblUpOut2.setLayoutX(635);  
 lblUpOut2.setLayoutY(130);  
 lblUpOut2.setMinWidth(100);  
 lblUpOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblUpOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTotLoPayOut2 = **new** Label();  
 lblTotLoPayOut2.setLayoutX(635);  
 lblTotLoPayOut2.setLayoutY(155);  
 lblTotLoPayOut2.setMinWidth(100);  
 lblTotLoPayOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotLoPayOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
  
 Label lblTotLoInOut2 = **new** Label();  
 lblTotLoInOut2.setLayoutX(635);  
 lblTotLoInOut2.setLayoutY(180);  
 lblTotLoInOut2.setMinWidth(100);  
 lblTotLoInOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTotLoInOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 Label lblTcOut2 = **new** Label(**" "**);  
 lblTcOut2.setLayoutX(635);  
 lblTcOut2.setLayoutY(205);  
 lblTcOut2.setMinWidth(100);  
 lblTcOut2.setStyle(**"-fx-font-weight: bold; -fx-background-color:#e1ebe4;"**);  
 lblTcOut2.setAlignment(Pos.***CENTER\_RIGHT***);  
  
 *//----------------------------------- TextField For Monthly Price Tab -----------------------------//* TextField txtMonthly = **new** TextField();  
 txtMonthly.setLayoutX(145);  
 txtMonthly.setLayoutY(50);  
 txtMonthly.setPrefWidth(100);  
  
 TextField txtLt2 = **new** TextField();  
 txtLt2.setLayoutX(145);  
 txtLt2.setLayoutY(90);  
 txtLt2.setPrefWidth(100);  
  
 TextField txtIr2 = **new** TextField();  
 txtIr2.setLayoutX(145);  
 txtIr2.setLayoutY(130);  
 txtIr2.setPrefWidth(100);  
  
 TextField txtDp2 = **new** TextField();  
 txtDp2.setLayoutX(145);  
 txtDp2.setLayoutY(170);  
 txtDp2.setPrefWidth(100);  
  
 TextField txtTv2 = **new** TextField();  
 txtTv2.setLayoutX(145);  
 txtTv2.setLayoutY(210);  
 txtTv2.setPrefWidth(100);  
  
 ComboBox comboSt2 = **new** ComboBox();  
 comboSt2.setLayoutX(145);  
 comboSt2.setLayoutY(250);  
 comboSt2.setPrefWidth(120);  
 comboSt2.setValue(**"--Select--"**);  
 comboSt2.getItems().addAll(**"--Select--"**, **"Califorina"**, **"Colombo"**, **"kandy"**, **"Trincomalee"**, **"Kinniya"**);  
  
 TextField txtSt2 = **new** TextField();  
 txtSt2.setLayoutX(145);  
 txtSt2.setLayoutY(290);  
 txtSt2.setPrefWidth(100);  
  
 TextField txtTitle2 = **new** TextField(**"$"**);  
 txtTitle2.setLayoutX(145);  
 txtTitle2.setLayoutY(330);  
 txtTitle2.setPrefWidth(100);  
  
 *//-------------------------------- Calculate Button For Monthly Price Tab ---------------------------//* Button btnLoanTab2 = **new** Button(**"Calculate"**);  
 btnLoanTab2.setLayoutX(90);  
 btnLoanTab2.setLayoutY(390);  
 btnLoanTab2.setPrefSize(120,30);  
 btnLoanTab2.setStyle(**"-fx-font-size:15;-fx-font-color:white; -fx-background-color: #2ABB9B; -fx-font-weight: bold;"**);  
  
 Alert alertMonth = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 btnLoanTab2.setOnAction(event -> {  
 **try** {  
  
  
 **double** monthPay = Double.*parseDouble*(txtMonthly.getText());  
 **double** loanTerm = Double.*parseDouble*(txtLt2.getText());  
 **double** interestRate = Double.*parseDouble*(txtIr2.getText());  
 **double** downPay = Double.*parseDouble*(txtDp2.getText());  
 **double** tradeValue = Double.*parseDouble*(txtTv2.getText());  
 **double** saleTex = Double.*parseDouble*(txtSt2.getText());  
 **double** tittleFee = Double.*parseDouble*(txtTitle2.getText());  
  
 **double** vehicleFee = (((monthPay \* (1 - Math.*pow*((1 + (interestRate / 100) / 12), -loanTerm))) \* 12) / (interestRate / 100)) + downPay + tradeValue;  
 **double** totLoanAmount = vehicleFee - (downPay + tradeValue);  
 **double** salesTax = (vehicleFee - tradeValue) \* (saleTex / 100);  
 **double** upFrontOut = downPay + salesTax + tittleFee;  
 **double** totLoanPay = loanTerm \* monthPay;  
 **double** totLoanInterest = totLoanPay - totLoanAmount;  
 **double** totCost = vehicleFee + totLoanInterest + salesTax + tittleFee;  
  
 lblVehPrice.setText(String.*format*(**"Vehicle Price: $ "** + **"%.2f"**, vehicleFee));  
 lblTlOut2.setText(String.*format*(**"$"** + **"%.2f"**, totLoanAmount)); *//Total Loan Amount* lblStOut2.setText(String.*format*(**"$"** + **"%.2f"**, salesTax)); *//Sale Tax* lblUpOut2.setText(String.*format*(**"$"** + **"%.2f"**, upFrontOut)); *//Upfront Payment* lblTotLoPayOut2.setText(String.*format*(**"$"** + **"%.2f"**, totLoanPay)); *//Total of 60 Loan Payment* lblTotLoInOut2.setText(String.*format*(**"$"** + **"%.2f"**, totLoanInterest)); *//Total Loan Interest* lblTotLoPay2.setText(String.*format*(**"Total of "** + (**int**) loanTerm + **"Loan Payments"**));  
 lblTcOut2.setText(String.*format*(**"$"** + **"%.2f"**, totCost)); *//Total Cost(Price, Interest,tax,fees)* }**catch** (Exception exception){  
 alertMonth.setAlertType(Alert.AlertType.***CONFIRMATION***);  
 alertMonth.setHeaderText(**"Please Enter Valid Integer Value"**);  
 alertMonth.show();  
 }  
  
 });  
  
 AnchorPane ancMonthly = **new** AnchorPane();  
 ancMonthly.getChildren().addAll(lblMonth, lblLoanTerm2, lblIr2, lblDownPay2, lblTradVal2, lblYState2, lblSalTex2, lblTitle2,  
 txtMonthly, txtLt2, txtIr2, txtDp2, txtTv2, comboSt2, txtSt2, txtTitle2, lblTl2, lblSt2, lblVehPrice, btnLoanTab2,  
 lblUp2, lblTotLoPay2, lblTotLoIn2, lblTc2, lblTlOut2, lblStOut2, lblUpOut2, lblTotLoPayOut2, lblTotLoInOut2, lblTcOut2);  
  
 tabMonthlyPay.setContent(ancMonthly);  
  
  
 tabLoan.getTabs().addAll(tabTotalPrice, tabMonthlyPay);  
  
 *//------------------------------------- Keyboard For Auto Loan Calculator ----------------------------//* VBox keyBord = **new** VBox();  
 keyBord.setPrefSize(200, 280);  
 keyBord.setLayoutX(800);  
 keyBord.setLayoutY(70);  
  
 HBox box1 = **new** HBox();  
 box1.setPrefSize(100, 70);  
 box1.setSpacing(5);  
  
 HBox box2 = **new** HBox();  
 box2.setPrefSize(100, 70);  
 box2.setSpacing(5);  
  
 HBox box3 = **new** HBox();  
 box3.setPrefSize(100, 70);  
 box3.setSpacing(5);  
  
 HBox box4 = **new** HBox();  
 box4.setPrefSize(100, 70);  
 box4.setSpacing(5);  
  
 Button btnNum1 = **new** Button();  
 btnNum1.setText(**"1"**);  
 btnNum1.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum1.setPrefSize(60, 60);  
 btnNum1.setFocusTraversable(**false**);  
 Alert alertNo1 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum1.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum1.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"1"**);  
 }**catch** (Exception exception){  
 alertNo1.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo1.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo1.show();  
 }  
  
 });  
  
 Button btnNum2 = **new** Button();  
 btnNum2.setText(**"2"**);  
 btnNum2.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum2.setPrefSize(60, 60);  
 btnNum2.setFocusTraversable(**false**);  
 Alert alertNo2 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum2.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum2.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"2"**);  
 }**catch** (Exception exception){  
 alertNo2.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo2.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo2.show();  
 }  
  
 });  
  
  
 Button btnNum3 = **new** Button();  
 btnNum3.setText(**"3"**);  
 btnNum3.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum3.setPrefSize(60, 60);  
 btnNum3.setFocusTraversable(**false**);  
 Alert alertNo3 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum3.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum3.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"3"**);  
 }**catch** (Exception exception){  
 alertNo3.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo3.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo3.show();  
 }  
  
 });  
  
 Button btnNum4 = **new** Button();  
 btnNum4.setText(**"4"**);  
 btnNum4.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum4.setPrefSize(60, 60);  
 btnNum4.setFocusTraversable(**false**);  
 Alert alertNo4 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum4.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum4.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"4"**);  
 }**catch** (Exception exception){  
 alertNo4.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo4.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo4.show();  
 }  
  
 });  
  
 Button btnNum5 = **new** Button();  
 btnNum5.setText(**"5"**);  
 btnNum5.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum5.setPrefSize(60, 60);  
 btnNum5.setFocusTraversable(**false**);  
 Alert alertNo5 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum5.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum5.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"5"**);  
 }**catch** (Exception exception){  
 alertNo5.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo5.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo5.show();  
 }  
  
 });  
  
 Button btnNum6 = **new** Button();  
 btnNum6.setText(**"6"**);  
 btnNum6.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum6.setPrefSize(60, 60);  
 btnNum6.setFocusTraversable(**false**);  
 Alert alertNo6 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum6.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum6.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"6"**);  
 }**catch** (Exception exception){  
 alertNo6.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo6.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo6.show();  
 }  
  
 });  
  
 Button btnNum7 = **new** Button();  
 btnNum7.setText(**"7"**);  
 btnNum7.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum7.setPrefSize(60, 60);  
 btnNum7.setFocusTraversable(**false**);  
 Alert alertNo7 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum7.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum7.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"7"**);  
 }**catch** (Exception exception){  
 alertNo7.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo7.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo7.show();  
 }  
  
 });  
  
 Button btnNum8 = **new** Button();  
 btnNum8.setText(**"8"**);  
 btnNum8.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum8.setPrefSize(60, 60);  
 btnNum8.setFocusTraversable(**false**);  
 Alert alertNo8 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"8"**);  
 }**catch** (Exception exception){  
 alertNo8.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo8.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo8.show();  
 }  
  
 });  
  
 Button btnNum9 = **new** Button();  
 btnNum9.setText(**"9"**);  
 btnNum9.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum9.setPrefSize(60, 60);  
 btnNum9.setFocusTraversable(**false**);  
 Alert alertNo9 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum8.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum8.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"9"**);  
 }**catch** (Exception exception){  
 alertNo9.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo9.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo9.show();  
 }  
  
 });  
  
 Button btnNum0 = **new** Button();  
 btnNum0.setText(**"0"**);  
 btnNum0.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnNum0.setPrefSize(60, 60);  
 btnNum0.setFocusTraversable(**false**);  
 Alert alertNo0 = **new** Alert(Alert.AlertType.***ERROR***);  
 btnNum0.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnNum0.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText()+**"0"**);  
 }**catch** (Exception exception){  
 alertNo0.setAlertType(Alert.AlertType.***ERROR***);  
 alertNo0.setHeaderText(**"Please Choose Right TextField"**);  
 alertNo0.show();  
 }  
  
 });  
  
 Button btnPoint = **new** Button();  
 btnPoint.setText(**"."**);  
 btnPoint.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnPoint.setPrefSize(60, 60);  
 btnPoint.setFocusTraversable(**false**);  
 Alert alertPoint = **new** Alert(Alert.AlertType.***ERROR***);  
 btnPoint.setOnAction(event -> {  
 **try** {  
 TextField txtFinance = (TextField) btnPoint.getScene().getFocusOwner();  
 txtFinance.setText(txtFinance.getText() + **"."**);  
 }**catch** (Exception exception){  
 alertPoint.setAlertType(Alert.AlertType.***ERROR***);  
 alertPoint.setHeaderText(**"Please Choose Right TextField"**);  
 alertPoint.show();  
 }  
  
 });  
  
  
 Button btnClear = **new** Button();  
 btnClear.setText(**"C"**);  
 btnClear.setStyle(**"-fx-font-size:20; -fx-font-weight: bold;"**);  
 btnClear.setPrefSize(60, 60);  
 btnClear.setFocusTraversable(**false**);  
 Alert alertClear = **new** Alert(Alert.AlertType.***ERROR***);  
 btnClear.setOnAction(event -> {  
 **try** {  
 TextField textFinance = (TextField) btnClear.getScene().getFocusOwner();  
 String clear = textFinance.getText().substring(0, textFinance.getText().length() - 1);  
 textFinance.setText(clear);  
 }**catch** (Exception exception){  
 alertClear.setAlertType(Alert.AlertType.***ERROR***);  
 alertClear.setHeaderText(**"Please Choose Right TextField"**);  
 alertClear.show();  
 }  
  
 });  
  
 keyBord.getChildren().addAll(box1, box2, box3, box4);  
 box1.getChildren().addAll(btnNum1, btnNum2, btnNum3);  
 box2.getChildren().addAll(btnNum4, btnNum5, btnNum6);  
 box3.getChildren().addAll(btnNum7, btnNum8, btnNum9);  
 box4.getChildren().addAll(btnClear, btnNum0, btnPoint);  
  
 AnchorPane ancAutLo = **new** AnchorPane(tabLoan,keyBord,btnBack,btnClose);  
 ancAutLo.setPrefSize(1100, 550);  
 ancAutLo.setStyle(**"-fx-background-color:#6C7A89;"**);  
 Scene sc = **new** Scene(ancAutLo);  
 stgAutoLoan.setScene(sc);  
 stgAutoLoan.show();  
 }  
}

# Help.java

**import** javafx.scene.Scene;  
**import** javafx.scene.control.Button;  
**import** javafx.scene.control.Label;  
**import** javafx.scene.layout.AnchorPane;  
**import** javafx.stage.Modality;  
**import** javafx.stage.Stage;  
  
**public class** Help {  
 **public static void** HelpBtn(){  
 Stage stgHelp = **new** Stage();  
  
 stgHelp.initModality(Modality.***APPLICATION\_MODAL***); *//Cant Accessible Previous Window* stgHelp.setTitle(**"Financial Calculator Instructions"**);  
 stgHelp.setWidth(900);  
 stgHelp.setHeight(400);  
  
 Label lblPoint1 = **new** Label();  
 lblPoint1.setText(**"This finance calculator can be used to calculate any number of the following parameters: \n"**+  
 **"future value (FV), number of compounding periods (N), interest rate (I/Y),\n"** +  
 **" annuity payment (PMT), and start principal if the other parameters are known. Each of the following tabs \n"** +  
 **"represents the parameters to be calculated"**);  
 lblPoint1.setStyle(**"-fx-font-size:20; -fx-font-weight:bold;"**);  
 lblPoint1.setLayoutX(10);  
 lblPoint1.setLayoutY(20);  
  
 Label lblPoint2 = **new** Label();  
 lblPoint2.setText(**""**);  
  
  
  
 Button btnClose = **new** Button(**"CLOSE"**);  
 btnClose.setPrefSize(200,30);  
 btnClose.setLayoutX(600);  
 btnClose.setLayoutY(300);  
 btnClose.setStyle(**"-fx-font-size:15; -fx-font-weight: bold;-fx-background-color: #2ABB9B;"**);  
 btnClose.setOnAction(event -> stgHelp.close());  
  
 AnchorPane layout = **new** AnchorPane();  
 layout.setStyle(**"-fx-background-color:#6C7A89"**);  
 layout.getChildren().addAll(btnClose,lblPoint1);  
  
 Scene sceneHelp = **new** Scene(layout);  
 stgHelp.setScene(sceneHelp);  
 stgHelp.show();  
 }  
}