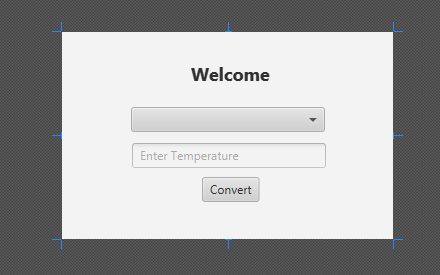
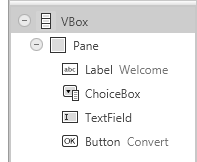
*//TEMPERATURE CONVERTER TOOL*

*//Mymain.java* **package** com.internshala.javafx;  
  
 **import** javafx.application.Application;  
 **import** javafx.application.Platform;  
 **import** javafx.event.ActionEvent;  
 **import** javafx.event.EventHandler;  
 **import** javafx.fxml.FXMLLoader;  
 **import** javafx.scene.Scene;  
 **import** javafx.scene.control.\*;  
 **import** javafx.scene.layout.Pane;  
 **import** javafx.scene.layout.VBox;  
 **import** javafx.stage.Stage;  
  
 **import** java.util.Optional;  
  
**public class** Mymain **extends** Application {  
 **public static void** main(String[]args)  
 {  
 System.***out***.println(**"main"**);  
 *launch*(args);  
 }  
  
 @Override  
 **public void** init() **throws** Exception {  
 System.***out***.println(**"Init"**);  
 **super**.init();  
 }  
  
 @Override  
 **public void** start(Stage primaryStage) **throws** Exception {  
 System.***out***.println(**"Start"**);  
 FXMLLoader loader = **new** FXMLLoader(getClass().getResource(**"app\_layout.fxml"**));  
 VBox rootNode = loader.load();  
 MenuBar menuBar = createMenu();  
 rootNode.getChildren().add(0,menuBar);  
 Scene scene = **new** Scene(rootNode);  
  
 primaryStage.setScene(scene);  
 primaryStage.setTitle(**"Temperature Converter tool"**);  
 primaryStage.setResizable(**false**);  
  
 primaryStage.show();  
  
 }  
 **private** MenuBar createMenu()  
 {  
 Menu fileMenu = **new** Menu(**"File"**);  
 MenuItem newMenuItem = **new** MenuItem(**"New"**);  
 newMenuItem.setOnAction(event -> System.***out***.println(**"New Menu Item clicked"**));  
 SeparatorMenuItem separatorMenuItem = **new** SeparatorMenuItem();  
 MenuItem quitMenuItem = **new** MenuItem(**"Quit"**);  
 quitMenuItem.setOnAction(event -> {  
 Platform.*exit*();  
 System.*exit*(0);  
 });  
 fileMenu.getItems().addAll(newMenuItem, separatorMenuItem, quitMenuItem);  
 Menu helpMenu = **new** Menu(**"Help"**);  
 MenuItem aboutApp = **new** MenuItem(**"About"**);  
 helpMenu.getItems().addAll(aboutApp);  
 aboutApp.setOnAction(event -> aboutApp());  
  
  
  
 MenuBar menuBar = **new** MenuBar();  
 menuBar.getMenus().addAll(fileMenu,helpMenu);  
 **return** menuBar;  
 }  
  
 **private void** aboutApp() {  
 Alert alertDialog = **new** Alert(Alert.AlertType.***CONFIRMATION***);  
 alertDialog.setTitle(**"My Deskop App"**);  
 alertDialog.setHeaderText(**"Learning Java FX"**);  
 alertDialog.setContentText(**"Iam learning Java FX soon i will be developing ausome games inshaallah"**);  
 ButtonType Yesbtn = **new** ButtonType(**"Yes"**);  
 ButtonType Nobtn = **new** ButtonType(**"No"**);  
 alertDialog.getButtonTypes().setAll(Yesbtn,Nobtn);  
 Optional<ButtonType> clickedBtn = alertDialog.showAndWait();  
  
 **if** (clickedBtn.isPresent()&&clickedBtn.get()==Yesbtn)  
 {  
 System.***out***.println(**"Yes Button Clicked"**);  
 }  
 **else** {  
 System.***out***.println(**"No Button Clicked"**);  
 }  
  
 }  
  
 @Override  
 **public void** stop() **throws** Exception {  
 System.***out***.println(**"Stop"**);  
 **super**.stop();  
 }  
}

// Applayout.xml

*<?***xml version="1.0" encoding="UTF-8"***?>  
  
<?***import javafx.scene.control.Button***?>  
<?***import javafx.scene.control.ChoiceBox***?>  
<?***import javafx.scene.control.Label***?>  
<?***import javafx.scene.control.TextField***?>  
<?***import javafx.scene.layout.Pane***?>  
<?***import javafx.scene.layout.VBox***?>  
<?***import javafx.scene.text.Font***?>*<**VBox maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="207.0" prefWidth="331.0" xmlns="http://javafx.com/javafx/8.0.121" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.internshala.javafx.Controller"**>  
 <**children**>  
 <**Pane prefHeight="200.0" prefWidth="200.0"**>  
 <**children**>  
 <**Label fx:id="welcomeLabel" layoutX="129.0" layoutY="29.0" text="Welcome"**>  
 <**font**>  
 <**Font name="System Bold" size="18.0"** />  
 </**font**>  
 </**Label**>  
 <**ChoiceBox fx:id="choiceBox" layoutX="69.0" layoutY="75.0" prefHeight="25.0" prefWidth="194.0"** />  
 <**TextField fx:id="userInputField" layoutX="70.0" layoutY="111.0" prefHeight="25.0" prefWidth="194.0" promptText="Enter Temperature"** />  
 <**Button fx:id="convertButton" layoutX="140.0" layoutY="145.0" mnemonicParsing="false" text="Convert"** />  
 </**children**>  
 </**Pane**>  
 </**children**>  
</**VBox**>





Controller.java

**package** com.internshala.javafx;  
  
**import** javafx.beans.value.ChangeListener;  
**import** javafx.beans.value.ObservableValue;  
**import** javafx.event.ActionEvent;  
**import** javafx.event.EventHandler;  
**import** javafx.fxml.Initializable;  
**import** javafx.scene.control.\*;  
  
  
**import** javax.lang.model.element.ElementVisitor;  
**import** java.net.URL;  
**import** java.util.ResourceBundle;  
  
**public class** Controller **implements** Initializable {  
 **public** Label **welcomeLabel**;  
 **public** ChoiceBox<String> **choiceBox**;  
 **public** TextField **userInputField**;  
 **public** Button **convertButton**;  
 **private static final** String ***C\_To\_F\_TEXT***=**"Celsius to Farenhiet"**;  
 **private static final** String ***F\_To\_C\_TEXT*** =**"Farenhiet to Celsius"**;  
 **private boolean is\_C\_To\_F** = **true**;  
  
  
  
 @Override  
 **public void** initialize(URL location, ResourceBundle resources) {  
  
 **choiceBox**.getItems().add(***C\_To\_F\_TEXT***);  
 **choiceBox**.getItems().add(***F\_To\_C\_TEXT***);  
 **choiceBox**.setValue(***C\_To\_F\_TEXT***);  
 **choiceBox**.getSelectionModel().selectedItemProperty().addListener(**new** ChangeListener<String>() {  
 @Override  
 **public void** changed(ObservableValue<? **extends** String> observable, String oldValue, String newValue) {  
 **if** (newValue.equals(***C\_To\_F\_TEXT***)) {  
 **is\_C\_To\_F** = **true**;  
 } **else** {  
 **is\_C\_To\_F**=**false**;  
 }  
 }  
 });  
 **convertButton**.setOnAction(**new** EventHandler<ActionEvent>() {  
 @Override  
 **public void** handle(ActionEvent event) {  
 convert();  
 }  
 });  
  
 }  
  
 **private void** convert() {  
 String input = **userInputField**.getText();  
 **float** enteredTemperature =0.0f;  
 **try** {  
 enteredTemperature = Float.*parseFloat*(input);  
  
 } **catch** (Exception exception)  
 {  
 warnUser();  
 **return**;  
 }  
 **float** newTemperature = 0.0f;  
  
 **if** (**is\_C\_To\_F**)  
 {  
newTemperature = (enteredTemperature\*9/5) +32;  
 } **else** {  
 newTemperature =(enteredTemperature-32)\* 5/9;  
 }  
 display(newTemperature);  
 }  
  
 **private void** warnUser() {  
 Alert alert = **new** Alert(Alert.AlertType.***ERROR***);  
 alert.setTitle(**"Error occured!"**);  
 alert.setHeaderText(**"Invalid temperature entered"**);  
 alert.setContentText(**" Please enter valid temperature !"**);  
 alert.show();  
 }  
  
 **private void** display(**float** newTemperature) {  
 String unit = **is\_C\_To\_F**? **"F"**: **"C"**;  
 System.***out***.println(**"The new Temperature is "**+newTemperature +unit);  
 Alert alert = **new** Alert(Alert.AlertType.***INFORMATION***);  
 alert.setTitle(**"Result"**);  
 alert.setContentText(**"The new Temperature is "**+newTemperature +unit);  
 alert.show();  
 }  
}