객체지향프로그래밍 JavaFX



학 과 : 소프트웨어학부

학 번 : 2017203053

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1. 소스코드

Main.java

Controller.java

```
package sample;
         dimport javafx.event.*;
           import java.lang.*;
          import java.net.URL;
import java.util.*;
import javafx.collections.FXCollections;
import javafx.fxml.*;
import javafx.stage.Modality;
 6
 8
 9
10
          import javafx.stage.StageStyle;
11
12
           import javafx.stage.Stage;
           import javafx.scene.Scene;
13
          import javafx.scene.scene;
import javafx.collections.*;
import javafx.scene.control.TableView;
import javafx.scene.control.Button;
import javafx.scene.Parent;
import javafx.scene.control.TableColumn;
14
15
16
17
18
           import javafx.scene.chart.BarChart;
19
           import javafx.scene.control.cell.PropertyValueFactory;
20
21
           import javafx.scene.chart.XYChart;
22
         import javafx.scene.control.TextField;
23
24
           public class Controller implements Initializable{
                @FXML private TableView<Score> tableview;
@FXML private Button button1;
@FXML private Button button2;
25
    4
   1
26
    010
27
28
                private Stage primaryStage;
29
                ObservableList<Score> scoreList= FXCollections.observableArrayList();
30
31
                @Override
public void initialize(URL location, ResourceBundle resources){
32 0
33 🐠
                      button1.setOnAction(event->{
34
                           try{
35
                                handleBtnlAction(event);
36
                           }catch(Exception e){
37
                                e.printStackTrace();
38
                      });
39
40 0
                      button2.setOnAction(event->{
41
                           try{
42
                                handleBtn2Action(event);
43
                           }catch(Exception e){
44
                                e.printStackTrace();
45
                           }
                      }):
46
```

```
void setPrimaryStage(Stage primaryStage) { this.primaryStage=primaryStage; }
void handleBtnlAction(ActionEvent event) throws Exception{
                            Stage dialog=new Stage(StageStyle. );
dialog_initModality(Modality. MANDOW_MODAL);
                            dialog.initOwner(primaryStage);
dialog.setTitle("추가");
56
57
                            Parent parent = FXMLLoader.load(getClass().getResource(@mmap"chart.fxml"));
Button btn1=(Button)parent.lookup(@mmap"btn1");
     0
                             btn1.setOnAction(e->{
                                    TextField textfield1 = (TextField)parent.lookup(
                                                                                                                                       "#textfield1");
                                    TextField textfield2 = (TextField)parent.lookup(
TextField textfield3 = (TextField)parent.lookup(
TextField textfield4 = (TextField)parent.lookup(
                                                                                                                                       "#textfield2");
                                                                                                                                        "#textfield3");
                                                                                                                                        "#textfield4"):
                                    scoreList.add(new Score(textfield1.getText()
                                                  Integer.parseInt(textfield1.getText()),
Integer.parseInt(textfield3.getText()),
Integer.parseInt(textfield4.getText()));
66
                                    TableColumn<Score, ?> tcName=tableview.getColumns().get(0); tcName.setCellValueFactory(new PropertyValueFactory ("name")); tcName.setStyle("-fx-alignment: CENTER;");
                                    TableColumn<Score, ?> tcKorean=tableview.getColumns().get(1);
tcKorean.setCellValueFactory(new PropertyValueFactory<>("korean"));
tcKorean.setStyle("-fx-alignment: CENTER;");
74
75
                                    TableColumn<Score, ?> tcMath=tableview.getColumns().get(2);
tcMath.setCellValueFactory(new PropertyValueFactory<>("math"));
tcMath.setStyle("-fx-alignment: CENTER;");
80
                                    TableColumn<Score, ?> tcEnglish=tableview.getColumns().get(3);
tcEnglish.setCellValueFactory(new PropertyValueFactory<>("english"));
tcEnglish.setStyle("-fx-alignment: CENTER;");
84
                                    tableview.setItems(scoreList);
                                    dialog.close();
88
                             });
                             Button btn2=(Button)parent.lookup(€
                                                                                                      "#btn2");
91 0
                             btn2.setOnAction(e->dialog.close());
                             Scene scene=new Scene(parent);
                             dialog.setScene(scene);
                            dialog.setResizable(false);
dialog.show();
```

```
| Stage dialog = new Stage(StageStyle_UTLITY);
| dialog_initModality(Modality) | dialog_initMo
```

Score.java

```
package sample;
           import javafx.beans.property.*;
           public class Score {
 6
                 private SimpleStringProperty name;
                 private SimpleIntegerProperty korean;
 8
                 private SimpleIntegerProperty math;
 9
                 private SimpleIntegerProperty english;
10
11
                 public Score(){
                      this.name=new SimpleStringProperty();
this.korean=new SimpleIntegerProperty();
this.math=new SimpleIntegerProperty();
12
13
14
                       this.english=new SimpleIntegerProperty();
15
16
                 public Score(String name, int korean, int math, int english){
17
                      this.name=new SimpleStringProperty(name);
this.korean=new SimpleIntegerProperty(korean);
18
19
20
                       this.math=new SimpleIntegerProperty(math);
21
                       this.english=new SimpleIntegerProperty(english);
22
         23
                     lic String getName() { return name.get(); }
                 public void setName(String name) { this.name.set(name); }
26
                 public int getKorean() { return korean.get(); }
public void setKorean(int korean) { this.korean.set(korean); }
29
32
                 public int getMath() { return math.get(); }
public void setMath(int korean) { this.math.set(korean); }
public int getEnglish() { return english.get(); }
public void setEnglish(int korean) { this.english.set(korean); }
35
38
44
           }
47
48
```

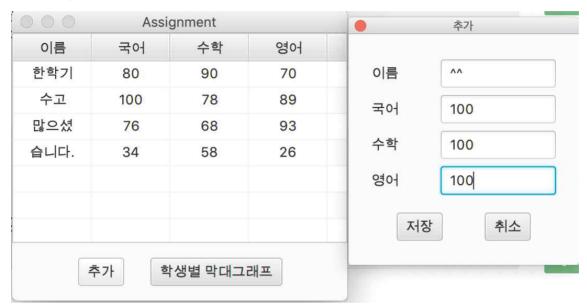
sample.fxml

chart.fxml

```
<?xml version="1.0" encoding="UTF-8"?>
                                  <?import javafx.scene.control.*?>
                                  <?import javafx.scene.layout.*?>
                                  <?import javafx.geometry.Insets?>
                                vBox maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity"
    prefHeight="220.0" prefWidth="220.0" xmlns:fx="http://javafx.com/fxml">
10
                                                                                 x alignment="CENTER" prefHeight="100.0" prefWidth="200.0" spacing="40.0">
13
                                                                  </HBox>
<HBox alignment="CENTER" prefHeight="100.0" prefWidth="200.0" spacing="40.0">
                                                                                 <children>
<children>
<Label text="국어" />
<TextField fx:id="textfield2" prefHeight="23.0" prefWidth="110.0" />
</children>
18
19
20
21
                                      •
                                                                   </H
23
24
                                                                   <HBox alignment="CENTER" prefHeight="100.0" prefWidth="200.0" spacing="40.0">
                                                                                                  ldren>
<Label text="수학" />
<TextField fx:id="textfield3" prefHeight="23.0" prefWidth="110.0" />
25
26
                                                                                  </children>
                                                                  </HBox>
</HBox alignment="CENTER" prefHeight="100.0" prefWidth="200.0" spacing="40.0">
28
29
                                                                                 30
33
                                                                  </HBox>
<HBox alignment="CENTER" prefHeight="100.0" prefWidth="200.0" spacing="40.0">
34
36
                                                                                                   《Button fx:id="btn1" mnemonicParsing="false" text="저장" />
<Button fx:id="btn2" mnemonicParsing="false" text="취소" />
38
                                                                                  <br/>
</children>
</br>
<br/>
</br>
<br/>
<
39
40
                                                 </HBox>
43
44
                                                  cyclication
c
48
```

graph.fxml

2. 실행 결과



• • •	Assi	Assignment		
이름	국어	수학	영어	
한학기	80	90	70	
수고	100	78	89	
많으셨	76	68	93	
습니다.	34	58	26	
^^	100	100	100	
Ā	학	·생별 막대그i	래프	

	Assi	gnment		막대 그래프
이름	국어	수학	영어	
한학기	80	90	70	100
수고	100	78	89	
많으셨	76	68	93	
습니다.	34	58	26	50
^^	100	100	100	25
ž	추가 흐	·생별 막대그	래프	한학기 수고 많으셨 습니다. ^^