## МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ "ЛЬВІВСЬКА ПОЛІТЕХНІКА"

Кафедра систем штучного інтелекту

## Лабораторна робота №15

з дисципліни «Об'єктно-орієнтоване програмування»

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1)
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```
package week15;
import javafx.application.Application; import
javafx.beans.property.SimpleStringProperty;
import javafx.collections.FXCollections; import
javafx.collections.ObservableList; import
javafx.event.ActionEvent; import
javafx.geometry.Insets; import javafx.scene.Group;
import javafx.scene.Scene; import
javafx.scene.control.Button; import
javafx.scene.control.Label; import
javafx.scene.control.TableColumn; import
javafx.scene.control.TableView; import
javafx.scene.control.TextField;
import javafx.scene.control.cell.PropertyValueFactory;
import javafx.scene.layout.HBox; import
javafx.scene.layout.VBox; import
javafx.scene.text.Font;
import javafx.stage.Stage;
public class Controller extends Application {
  private final TableView<TradePoint> table = new TableView<>();
  private final ObservableList<TradePoint> data =
FXCollections.observableArrayList(
           new TradePoint( "Bruce", "1SalmanelaStreet", "vdsvsdv", "Rich",
"Tuesday", "17:00"),
                                new TradePoint( "Jason",
"2SalmanelaStreet","iyx553535", "Cook",
"Tuesday", "11:00"),
            new TradePoint( "Steve", "3SalmanelaStreet", "d880553535",
"Soldier", "Tuesday", "16:00"),
           new TradePoint( "Thor", "4SalmanelaStreet", "fg880553535",
"Superhero", "Tuesday", "14:00"),
            new TradePoint( "Joe", "5SalmanelaStreet", "qwadfggfhhn", "Cook",
"Tuesday", "17:00"));
  final HBox hb = new HBox();
  public static void main(String[] args) {
    launch(args);
```

```
}
  @Override
  public void start(Stage stage) {
    Scene scene = new Scene(new Group());
    stage.setTitle("Trade Points");
stage.setWidth(650);
    stage.setHeight(550);
    final Label label = new Label("Trade Point");
label.setFont(new Font("Arial", 20));
    table.setEditable(true);
    TableColumn nameCol = new TableColumn("Name");
    nameCol.setMinWidth(100);
nameCol.setCellValueFactory(
         new PropertyValueFactory<>("name"));
    TableColumn adressCol = new TableColumn("Adress");
    adressCol.setMinWidth(100);
adressCol.setCellValueFactory(
         new PropertyValueFactory<>("adress"));
    TableColumn numberCol = new TableColumn("Number");
    numberCol.setMinWidth(100);
numberCol.setCellValueFactory(
         new PropertyValueFactory<>("number"));
    TableColumn specializationCol = new TableColumn("Specialization");
specializationCol.setMinWidth(100);
                                       specializationCol.setCellValueFactory(
        new PropertyValueFactory<>("specialization"));
    TableColumn dayCol = new TableColumn("Day");
    dayCol.setMinWidth(100);
dayCol.setCellValueFactory(
        new PropertyValueFactory<>("day"));
    TableColumn timeCol = new TableColumn("Time");
    timeCol.setMinWidth(100);
timeCol.setCellValueFactory(
         new PropertyValueFactory<>("time"));
```

```
table.setItems(data);
    table.getColumns().addAll(nameCol, adressCol, numberCol,
specializationCol, dayCol, timeCol);
    final TextField addName = new TextField();
addName.setPromptText("Name");
    addName.setMaxWidth(nameCol.getPrefWidth());
    final TextField addAdress = new TextField();
addAdress.setMaxWidth(adressCol.getPrefWidth());
addAdress.setPromptText("Adress");
    final TextField addNumbers = new TextField();
addNumbers.setMaxWidth(numberCol.getPrefWidth());
addNumbers.setPromptText("Number");
    final TextField addSpecialization = new TextField();
add Specialization. set MaxWidth (specialization Col.get PrefWidth ()); \\
addSpecialization.setPromptText("Specialization");
    final TextField addDay = new TextField();
addDay.setMaxWidth(dayCol.getPrefWidth());
addDay.setPromptText("Day");
    final TextField addTime = new TextField();
addTime.setMaxWidth(timeCol.getPrefWidth());
addTime.setPromptText("Time");
    final Button addButton = new Button("Add");
addButton.setOnAction((ActionEvent e) -> {
       data.add(new TradePoint(
addName.getText(),
addAdress.getText(),
addNumbers.getText(),
addSpecialization.getText(),
addDay.getText(),
addTime.getText()));
addName.clear();
                        addAdress.clear();
addNumbers.clear();
addSpecialization.clear();
addDay.clear();
```

```
addTime.clear();
     });
    hb.getChildren().addAll(addName, addAdress, addNumbers,
addSpecialization, addDay, addTime, addButton);
hb.setSpacing(10);
    final VBox vbox = new VBox();
    vbox.setSpacing(10);
vbox.setPadding(new Insets(10, 0, 0, 10));
vbox.getChildren().addAll(label, table, hb);
    ((Group) scene.getRoot()).getChildren().addAll(vbox);
    stage.setScene(scene);
stage.show();
  }
  public static class TradePoint{
                                     private final
SimpleStringProperty name;
                                 private final
SimpleStringProperty adress;
                                  private final
SimpleStringProperty number;
                                   private final
SimpleStringProperty specialization;
                                         private final
SimpleStringProperty day;
                               private final
SimpleStringProperty time;
    private TradePoint(String name1, String adress1, String number1, String
specialization1, String day1, String time1){
                                                this.name = new
SimpleStringProperty(name1);
                                   this.adress = new
SimpleStringProperty(adress1);
                                    this.number = new
SimpleStringProperty(number1);
                                     this.specialization = new
SimpleStringProperty(specialization1);
                                           this.day = new
SimpleStringProperty(day1);
    this.time = new SimpleStringProperty(time1);
     }
    public String getName() {
       return name.get();
     }
    public void setName(String fName) {
       name.set(fName);
     }
```

```
public String getAdress() {
return adress.get();
    public void setAdress(String fName) {
       adress.set(fName);
     }
    public String getNumber() {
       return number.get();
     }
    public void setNumber(String fName) {
       number.set(fName);
    public String getSpecialization() {
       return specialization.get();
     }
    public void setSpecialization(String fName) {
       specialization.set(fName);
     }
    public String getDay() {
return day.get();
    public void setDay(String fName) {
       day.set(fName);
    public String getTime() {
return time.get();
     }
    public void setTime(String fName) {
       time.set(fName);
     }
  }
```

## Результат роботи програми:

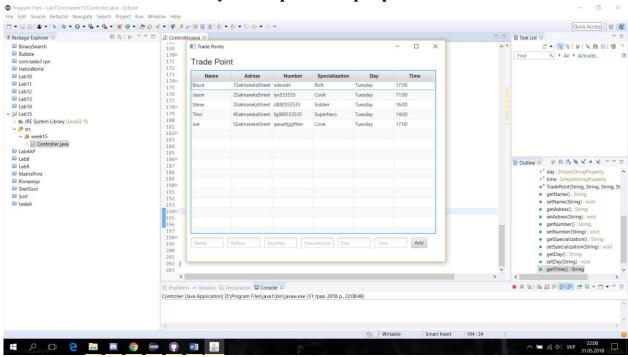


Рис.1 Результат роботи програми