Лабораторна робота №15
з дисципліни
«Об'єктно-орієнтоване програмування»

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Код програми:

1)

```java
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);
    }
```

```java
    @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);
```

```java
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();
addSpecialization.setMaxWidth(specializationCol.getPrefWidth());
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);
```

```java
        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);
        }
```

```java
    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);
    }
  }
}
```
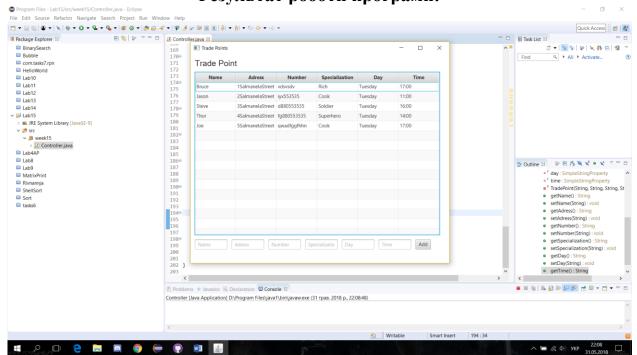
Результат роботи програми:

Рис.1 Результат роботи програми