

## 2.1 Laba 4.java

```
package laba4;

import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;

/**
 *
 * @author Denis Minaev
 */
public class Laba4 extends Application {

    @Override
    public void start(Stage stage) throws Exception {
        Parent root = FXMLLoader.load(getClass().getResource("FXMLDocument.fxml"));

        Scene scene = new Scene(root);

        stage.setScene(scene);
        stage.show();
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        launch(args);
    }
}
```

## 2.2 Customer.java

```
package laba4;

public class Customer {

    private int id;
    private String name;
    private String surname;
    private String otchestvo;
    private String adress;
    private int number;
    private float balans;
```

```
public Customer (int id, String name, String sername, String otchestvo, String
adress, int number, float balans) {
    this.id = id;
    this.name = name;
    this.sername = sername;
    this.otchestvo = otchestvo;
    this.adress = adress;
    this.number = number;
    this.balans = balans;
}
```

```
public Customer () {
    this.id = 0;
    this.name = "";
    this.sername = "";
    this.otchestvo = "";
    this.adress = "";
    this.number = 0;
    this.balans = 0;
}
```

```
public int getId() {
    return id;
}
public void setId(int id) {
    this.id = id;
}
```

```
public String getName() {
    return name;
}
public void setName(String name) {
    this.name = name;
}
```

```
public String getSername() {
    return sername;
}
public void setSername(String sername) {
    this.sername = sername;
}
```

```
public String getOtchestvo() {
    return otchestvo;
}
public void setOtchestvo(String otchestvo) {
    this.otchestvo = otchestvo;
}
```

```
public String getAddress() {
```

```

        return adress;
    }
    public void setAdress(String adress) {
        this.adress = adress;
    }

    public int getNumber() {
        return number;
    }
    public void setNumber(int number) {
        this.number = number;
    }

    public float getBalans() {
        return balans;
    }
    public void setBalans(float balans) {
        this.balans = balans;
    }

    @Override
    public String toString() {
        return "Customer{" + "id =" + id +
            ", name=" + name + "\" +
            ", name=" + sername + "\" +
            ", name=" + otchestvo + "\" +
            ", name=" + adress + "\" +
            ", name=" + number + "\" +
            ", balans=" + balans + '}'+' ';
    }
}

```

### 2.3 FXMLDocumentController.java

```

package laba4;

import java.io.BufferedWriter;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.IOException;
import java.io.PrintWriter;
import java.net.URL;
import java.util.ResourceBundle;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;

```

```

public class FXMLDocumentController implements Initializable {

    @FXML
    private Label label;

    @FXML
    private TextField id;

    @FXML
    private TextField name;

    @FXML
    private TextField sername;

    @FXML
    private TextField otchestvo;

    @FXML
    private TextField adress;

    @FXML
    private TextField number;

    @FXML
    private TextField balans;

    @FXML
    private TextField cust;

    private Customer customer = new Customer(); ;

    @FXML
    private void deleteButtonAction(ActionEvent event) {
        id.setText("");
        name.setText("");
        sername.setText("");
        otchestvo.setText("");
        adress.setText("");
        number.setText("");
        balans.setText("");
    }

    @FXML
    private void fileButtonAction(ActionEvent event) throws IOException {
        try (FileWriter out = new FileWriter ("employee.dat",true))
        {
            out.write(customer.toString());
        }
    }
}

```

```
}
```

```
@FXML
```

```
private void handleButtonAction(ActionEvent event) {
```

```
//     int n;
```

```
//     if (id.getText().compareTo("")==0) n=0;
```

```
        customer=vvodDanie();
```

```
}
```

```
public Customer vvodDanie() {
```

```
    if (id.getText().compareTo("")==0) customer.setId(0);
```

```
        else{
```

```
customer.setId(Integer.parseInt(id.getText())); }
```

```
        System.out.println("id: " +customer.getId() );
```

```
    if (name.getText().compareTo("")==0) customer.setName("");
```

```
        else{
```

```
customer.setName((name.getText()));
```

```
    }
```

```
        System.out.println("name: " + customer.getName() );
```

```
    if (sername.getText().compareTo("")==0) customer.setSername("");
```

```
        else{
```

```
customer.setSername((sername.getText())); }
```

```
        System.out.println("sername: " +customer.getSername() );
```

```
    if (otchestvo.getText().compareTo("")==0) customer.setOtchestvo("");
```

```
        else{
```

```
customer.setOtchestvo((otchestvo.getText()));
```

```
    }
```

```
        System.out.println("otchestvo: " +customer.getOtchestvo() );
```

```
    if (adress.getText().compareTo("")==0) customer.setAdress("");
```

```
        else{
```

```
customer.setAdress((adress.getText())); }
```

```
        System.out.println("adress: " +customer.getAdress() );
```

```

        if (number.getText().compareTo("")==0) customer.setNumber(0);
        else{
            customer.setNumber(Integer.parseInt(number.getText())); }

        System.out.println("number: " +customer.getNumber() );

    if (balans.getText().compareTo("")==0) customer.setBalans(0);
        else{
            customer.setBalans(Float.parseFloat(balans.getText())); }

        System.out.println("balans: " +customer.getBalans() );

    return customer;
    }
    @Override
    public void initialize(URL url, ResourceBundle rb) {
        // TODO
    }
}
}

```

## 2.4 FXMLDocument.fxml

```

<?xml version="1.0" encoding="UTF-8"?>
<?import javafx.geometry.Insets?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.ColumnConstraints?>
<?import javafx.scene.layout.GridPane?>
<?import javafx.scene.layout.RowConstraints?>
<?import javafx.scene.text.Font?>

<GridPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0"
xmlns="http://javafx.com/javafx/8.0.141" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="laba4.FXMLDocumentController">
    <columnConstraints>
        <ColumnConstraints hgrow="SOMETIMES" maxWidth="293.0" minWidth="10.0"
prefWidth="150.0" />
        <ColumnConstraints hgrow="SOMETIMES" maxWidth="293.0" minWidth="10.0"
prefWidth="150.0" />
        <ColumnConstraints hgrow="SOMETIMES" maxWidth="520.0" minWidth="10.0"
prefWidth="433.0" />
    </columnConstraints>
    <rowConstraints>
        <RowConstraints maxHeight="83.0" minHeight="10.0" prefHeight="83.0"
vgrow="SOMETIMES" />

```

```

    <RowConstraints maxHeight="45.0" minHeight="10.0" prefHeight="17.0"
vgrow="SOMETIMES" />
    <RowConstraints minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
    <RowConstraints minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
    <RowConstraints minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
    <RowConstraints minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
    <RowConstraints minHeight="10.0" prefHeight="30.0" vgrow="SOMETIMES" />
</rowConstraints>
<padding>
    <Insets left="10.0" />
</padding>

<children>

    <Label prefHeight="17.0" prefWidth="30.0" text="ID" GridPane.columnIndex="1"
GridPane.rowIndex="1">
        <GridPane.margin>
            <Insets left="10.0" />
        </GridPane.margin>
    </Label>
    <TextField fx:id="id" GridPane.columnIndex="2" GridPane.rowIndex="1">
        <GridPane.margin>
            <Insets right="10.0" />
        </GridPane.margin>
    </TextField>

    <Label text="Name" GridPane.columnIndex="1" GridPane.rowIndex="2">
        <GridPane.margin>
            <Insets left="10.0" />
        </GridPane.margin>
    </Label>
    <TextField fx:id="name" GridPane.columnIndex="2" GridPane.rowIndex="2">
        <GridPane.margin>
            <Insets right="10.0" />
        </GridPane.margin>
    </TextField>

    <Label text="Surname" GridPane.columnIndex="1" GridPane.rowIndex="3">
        <GridPane.margin>
            <Insets left="10.0" />
        </GridPane.margin>
    </Label>
    <TextField fx:id="surname" GridPane.columnIndex="2" GridPane.rowIndex="3">
        <GridPane.margin>
            <Insets right="10.0" />
        </GridPane.margin>
    </TextField>

```

```
<Label text="Otchestvo" GridPane.columnIndex="1" GridPane.rowIndex="4">
  <GridPane.margin>
    <Insets left="10.0" />
  </GridPane.margin>
</Label>
<TextField fx:id="otchestvo" GridPane.columnIndex="2" GridPane.rowIndex="4">
  <GridPane.margin>
    <Insets right="10.0" />
  </GridPane.margin>
</TextField>
```

```
      <Label          prefHeight="17.0"          prefWidth="45.0"          text="Adress"
GridPane.columnIndex="1" GridPane.rowIndex="5">
  <GridPane.margin>
    <Insets left="10.0" />
  </GridPane.margin>
</Label>
<TextField fx:id="adress" GridPane.columnIndex="2" GridPane.rowIndex="5">
  <GridPane.margin>
    <Insets right="10.0" />
  </GridPane.margin>
</TextField>
```

```
<Label text="Number" GridPane.columnIndex="1" GridPane.rowIndex="6">
  <GridPane.margin>
    <Insets left="10.0" />
  </GridPane.margin>
</Label>
<TextField fx:id="number" GridPane.columnIndex="2" GridPane.rowIndex="6">
  <GridPane.margin>
    <Insets right="10.0" />
  </GridPane.margin>
</TextField>
```

```
<Label text="Balans" GridPane.columnIndex="1" GridPane.rowIndex="7">
  <GridPane.margin>
    <Insets left="10.0" />
  </GridPane.margin>
</Label>
<TextField fx:id="balans" GridPane.columnIndex="2" GridPane.rowIndex="7">
  <GridPane.margin>
    <Insets right="10.0" />
  </GridPane.margin>
</TextField>
```

```
      <Button fx:id="ok" mnemonicParsing="false" onAction="#handleButtonAction"
prefHeight="25.0" prefWidth="41.0" text="Ok" GridPane.rowIndex="1">
  <GridPane.margin>
```



```
        <Insets left="10.0" />
    </GridPane.margin>
</Button>

    <Button fx:id="back" mnemonicParsing="false" prefHeight="25.0"
prefWidth="41.0" text="Back" GridPane.rowIndex="2">
    <GridPane.margin>
        <Insets left="10.0" />
    </GridPane.margin>
</Button>
    <Button fx:id="delete" mnemonicParsing="false" onAction="#deleteButtonAction"
text="Delete">
    <GridPane.margin>
        <Insets left="10.0" />
    </GridPane.margin>
</Button>
    <Button fx:id="save" mnemonicParsing="false" onAction="#fileButtonAction"
text="Save" GridPane.rowIndex="7">
    <GridPane.margin>
        <Insets left="10.0" />
    </GridPane.margin>
</Button>

</children>
</GridPane>
```