

Advance Java FA1



SEPTEMBER 2

COMPANY NAME

Authored by: Albert Michael Ludick



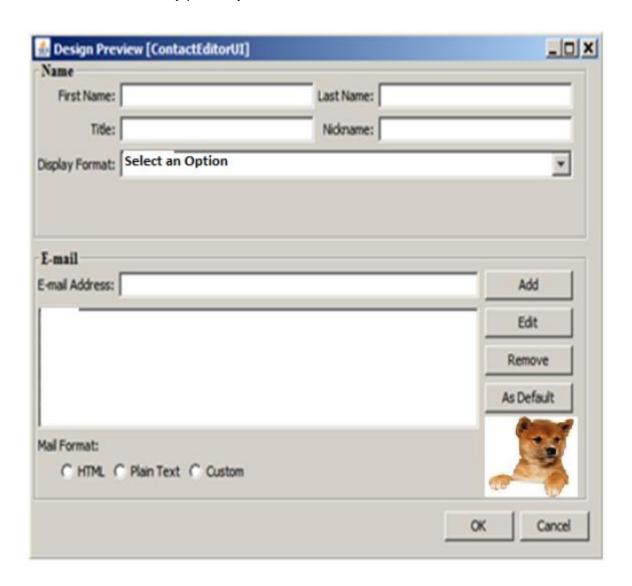
Table of Contents

Intorduction	3
Question 2	16
Question 2 Output	19
Question 2 Source Code	21
Conclution	25
Refences	26
Appendix	27

Intorduction

Question 1

Design the below interface using Java NetBeans ensure that the design looks exactly shown below. You can use any picture you want on the interface. To add title borders to the JPanels:

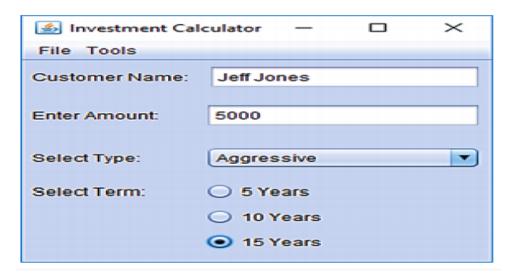


Question 2

[80]

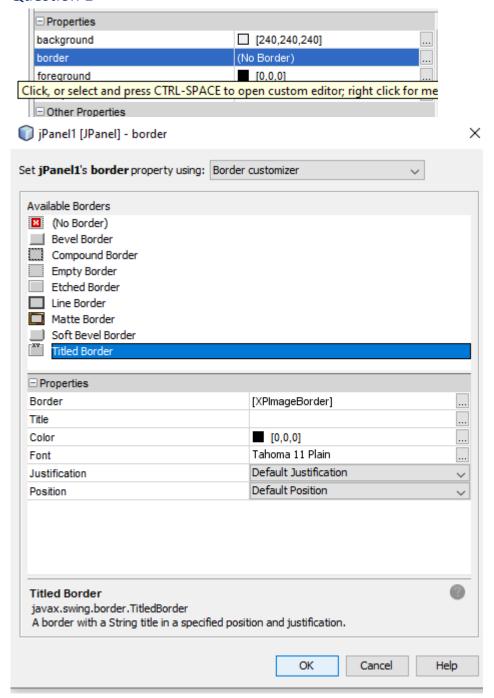
Develop a Java GUI application that will produce an investment report based on various criteria, such as investment amount, investment type and term. On the form create two text fields, one to capture the customer name and another to capture the amount to invest. Also create a combo box for the user to select the investment type which will be moderate or aggressive. Finally add three radio buttons for the user to select the term which is five years, 10 years or 15 years.

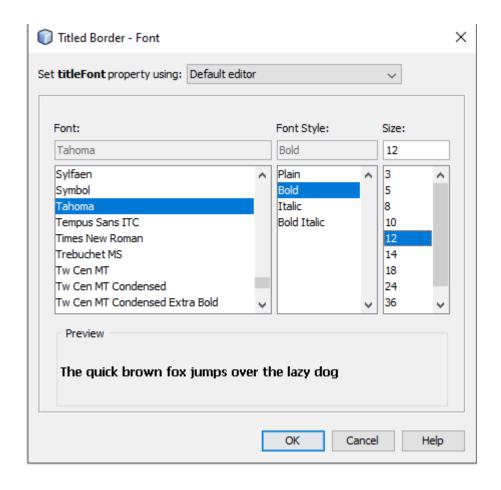
You are also required to create a menu system which will allow the user to exit the application under the file menu and calculate and clear under the tools menu. Marks will be allocated to the presentation and effectiveness of the layout.

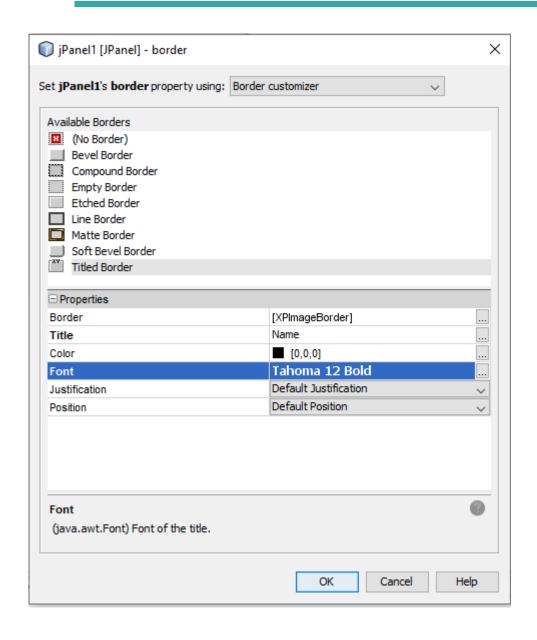


The application must calculate the compound interest of the amount entered at the required investment type. Moderate investments receive 10% interest, while the aggressive receives 15% interest per year for the selected term. A sample output based on the selection above would be:

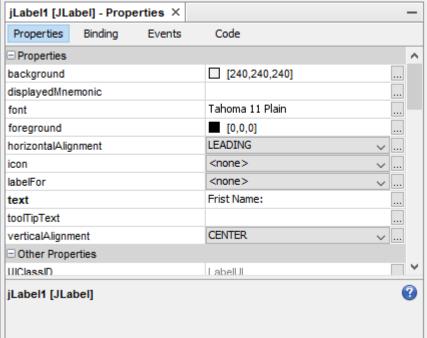
Question 1



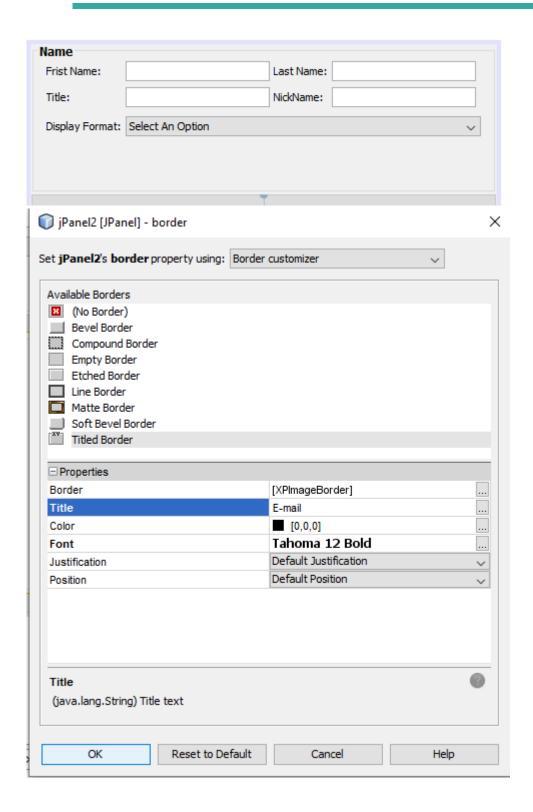


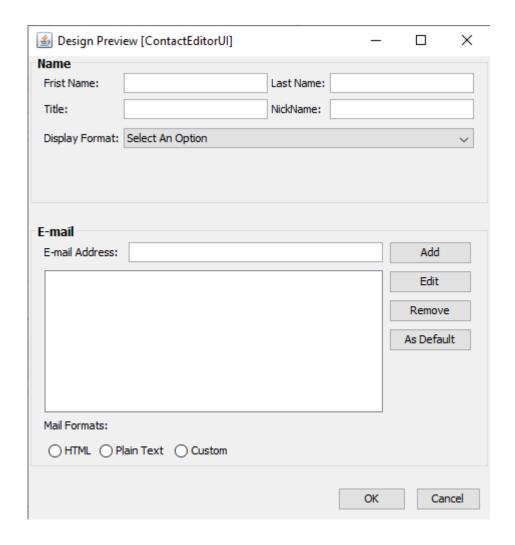


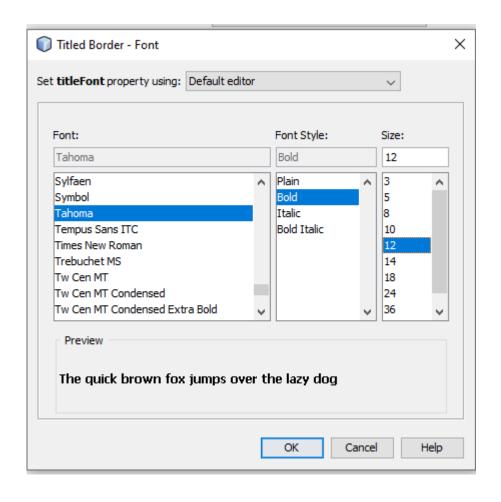


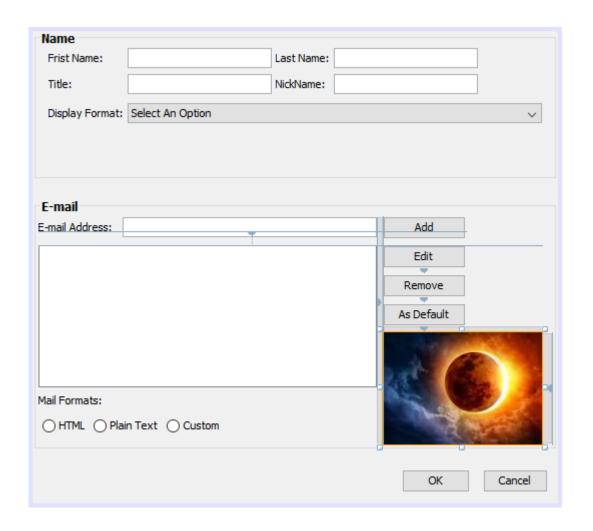


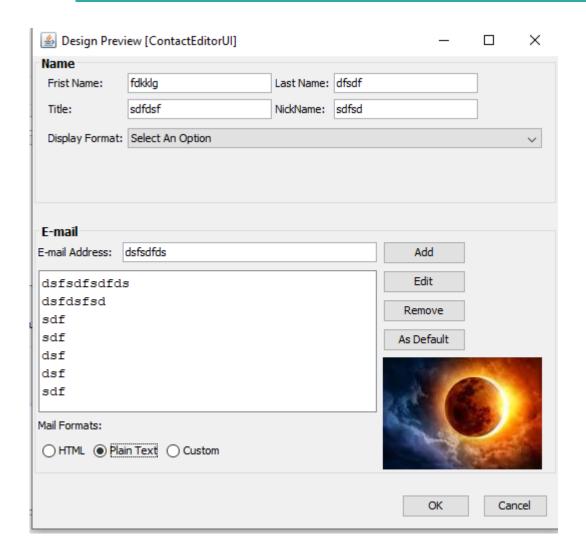
Name Frist Name:

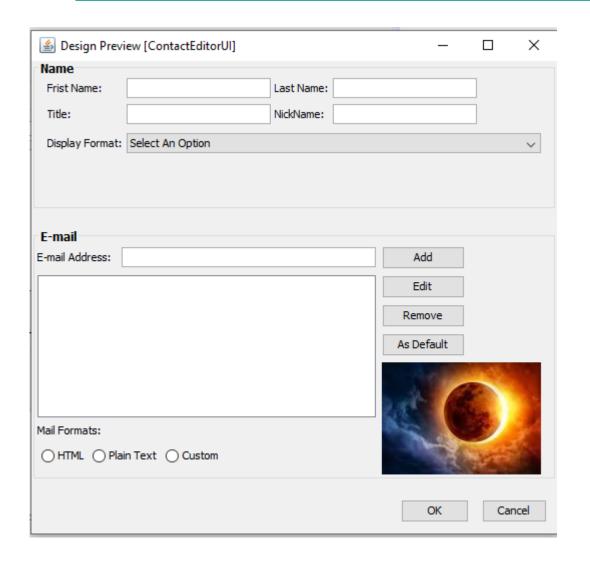


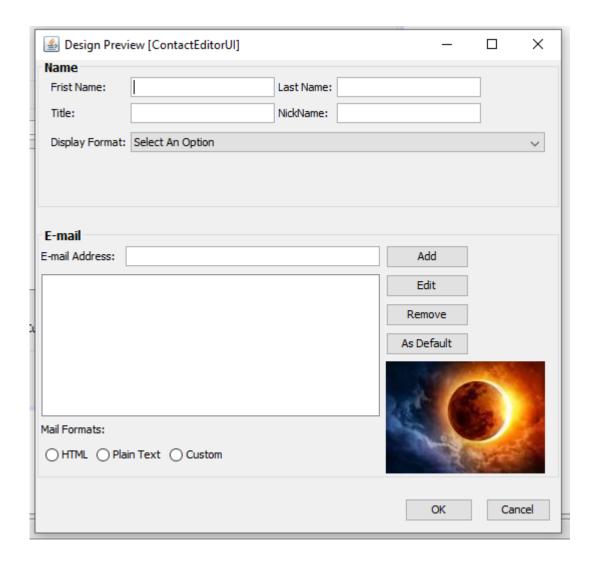






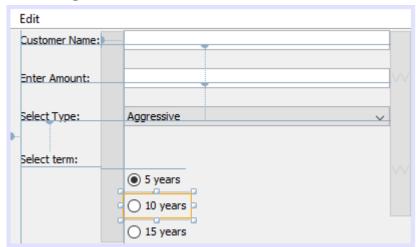


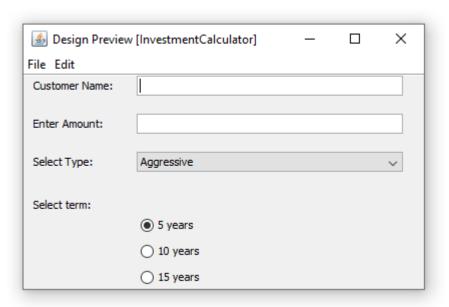


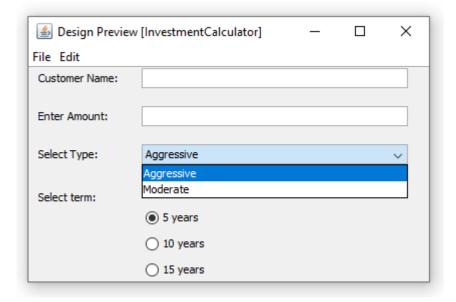


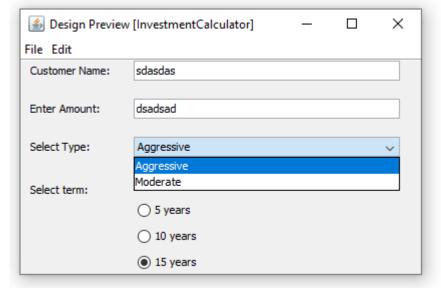
Question 2

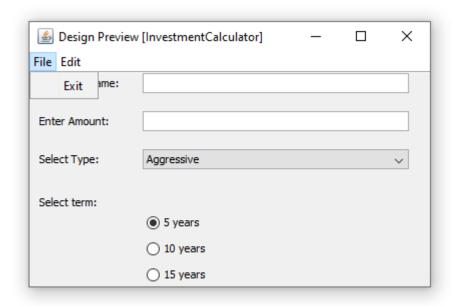
GUi Design

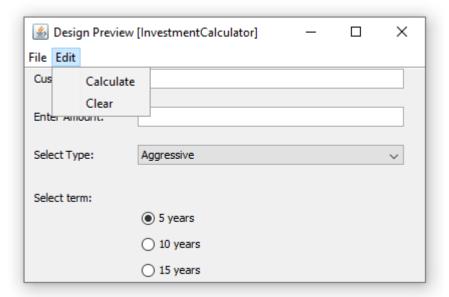




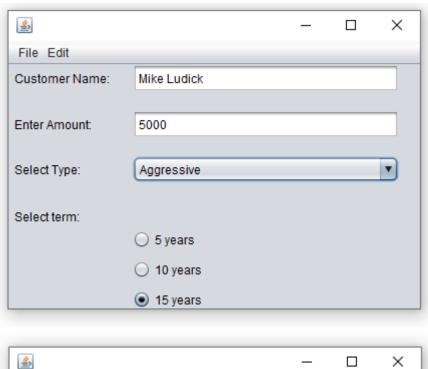


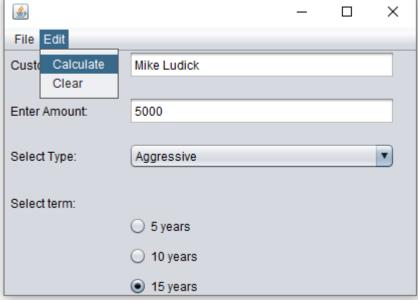


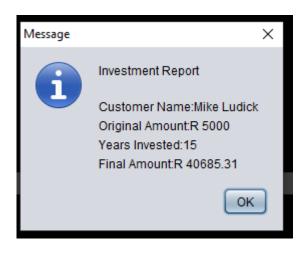




Question 2 Output







Question 2 Source Code

```
/*
  * this code here cleans all and reset all the controls values
  * to the default values
  */
private void jMenuItem3ActionPerformed(java.awt.event.ActionEvent evt) {
    txtName.setText("");
    txtAmount.setText("");
    rb5.setSelected(true);
    rb10.setSelected(false);
    rb15.setSelected(false);
    cmbType.setSelectedIndex(0);
}
```

```
/*

* this controls exits out of the application

*/

private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {

System.exit(0);
}
```

```
these methods is just checking if other radio button is
selected that it should unselect them

*/
private void rb5ActionPerformed(java.awt.event.ActionEvent evt) {
    if(rb10.isSelected()) {
        rb10.setSelected(false);
    }
    if(rb15.isSelected()) {
        rb15.setSelected(false);
    }
}
```

```
these methods is just checking if other radio button is
selected that it should unselect them
*/
private void rb15ActionPerformed(java.awt.event.ActionEvent evt) {
    if(rb10.isSelected()) {
        rb10.setSelected(false);
    }
    if(rb5.isSelected()) {
        rb5.setSelected(false);
    }
}
```

```
these methods is just checking if other radio button is
selected that it should unselect them
*/
private void rb10ActionPerformed(java.awt.event.ActionEvent evt) {
    if(rb15.isSelected()) {
        rb15.setSelected(false);
    }
    if(rb5.isSelected()) {
        rb5.setSelected(false);
    }
}
```

22

```
* this will work out the compound mathmatical expression of
* A=p(1+r)^t modified according to the App needs and requirements
* becuase the original is A=P(1=r/n)^nt
* @throws Exception
private void FinansialCalculator() throws Exception{
  double finalAmount;
  double initialBalance;
  double interrestRate=0;
  int years;
  if(rb5.isSelected()){
    years=5;
  else if(rb10.isSelected()){
    years=10;
  else if(rb15.isSelected()){
    years=15;
  else{
    throw new Exception ("No Selected Years value! code Line 191");
  initialBalance = Double.parseDouble(txtAmount.getText());
  if (cmbType.getSelectedIndex() == 0) {
    interrestRate =0.15;
  else if(cmbType.getSelectedIndex()==1){
     interrestRate =0.10;
```

23

```
252
             int years;
253
             if(rb5.isSelected()){
254
                years=5;
255
256
             else if(rb10.isSelected()){
257
               years=10;
258
259
             else if(rb15.isSelected()){
260
               years=15;
261
262
             else{
               throw new Exception ("No Selected Years value! code Line 191");
263
264
265
             initialBalance = Double.parseDouble(txtAmount.getText());
266
             if (cmbType.getSelectedIndex() == 0) {
267
                interrestRate =0.15;
268
269
             else if(cmbType.getSelectedIndex()==1){
270
                interrestRate =0.10;
271
272
             finalAmount= initialBalance*(Math.pow(1+interrestRate, years));
273
             PrintToScreen(finalAmount, years);
274
275
    276
        * this method will print the data to screen in a showmessage daialog
277
        * in a nicely formatted way
          @param finalAmount
278
279
        * @param numberOfYears
280
```

Conclution

The math app works! And
The first question and my frame is twins!

Refences

Websites: https://www.geeksforgeeks.org/

Appendix



Completed Declaration of Authenticity

IAlbert Michael Ludick (FULL NAME)	hereby
declare that the contents of this assignment Advance Java FA 1 work except for the following documents: (List the documents and papertfolio that were generated in a group)	
Activity	Date
Make both frames look the same	2020/09/01
And code for both if needed	2020/09/01
A A 🔟 ··· Signature: AlbertLudick	