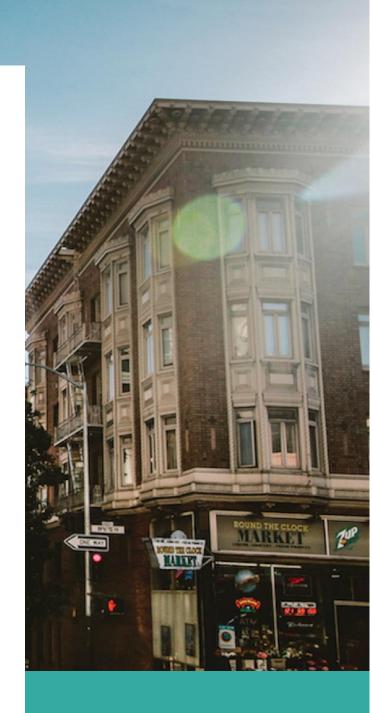


Advance Java Fa 2



SEPTEMBER 20

CTU training solutions
Authored by: Albert Michael Ludick



Table of Contents

Introduction:	4
Content:	
Running App:	7
Question1:	
Question 2:	
Code:	
Question1:	10
Question2:	13
Conclusion:	18
References:	19
Appendix:	20



Completed Declaration of Authenticity	
ALbert Michael Ludick	hereby
(FULL NAME)	
declare that the contents of this assignment Fa 2 advance java	
work except for the following documents: (List the documents and page portfolio that were generated in a group)	e numbers of work in this
Activity	Date
made the contacts list app	2020/09/20
and the artists app	2020/09/20
Signature:Al\bertLudick	

Introduction:

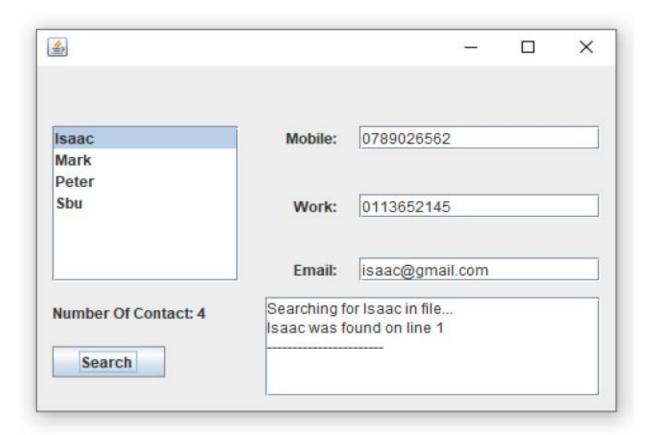
Question 1

Write a Java GUI application that will keep track of a user's contact list. The application must contain the contact mobile number, work number and email address.

- On the form, create a list box that will allow the user to select a contact name. Also create
 a search button that when clicked will display the mobile number, work number and email
 address.
- 2. Create a sequential file (contacts.txt) that contains data for the following fields:
 - a. The contact name:
 - b. The contact mobile number;
 - c. The contact work number;
 - d. The contact email address.

```
File Edit Format View Help
Isaac
0789026562
0113652145
isaac@gmail.com
Mark
0789026589
0123654789
mark@gmail.com
Peter
0788954726
0132365412
peter@gmail.com
0788945698
0215463548
sbu@gmail.com
```

Load the data from the contacts.txt file and populate the text fields with the contact names.
 Include a feature to inform the user on the amount of contacts.



[50]

Question 2

Create a two-dimensional array to contain the three sale items for five different artists. A single array must be used to store the artist names.

ARTIST NAME	CD SALES	DVD SALES	BLU RAY SALES
Ed Sheeran	900 000	800 000	500 000
Pink	700 000	500 000	500 000
Bruno Mars	800 000	100 000	50 000
Foo Fighters	100 000	200 000	200 000
Taylor Swift	300 000	100 000	50 000

Allow a user to enter in a number, ranging from 1 to 5, which will represent the artist position with regards to the album sales. The program can only when user enter a number greater than Printout the artist name including the CD, DVD, BLU RAY sales amounts and total sales.

[50]

Expected Output

Artist Name	CD Sales	DVD Sales	Blue Ray Sale	Total
1. Ed Sheeran	900000	800000	500000	2200000
2. Pink	700000	500000	500000	3900000
3. Bruno Mars	800000	100000	50000	4850000
4. Foo Fighters	100000	200000	200000	5350000
5. Taylor Swift	800000	100000	50000	€300000
Total	3300000	5000000	6300000	
Enter a number	Between 1 and	5 :		
1				
Artist Name: Pi	.nk			
CD Sale: 700000)			

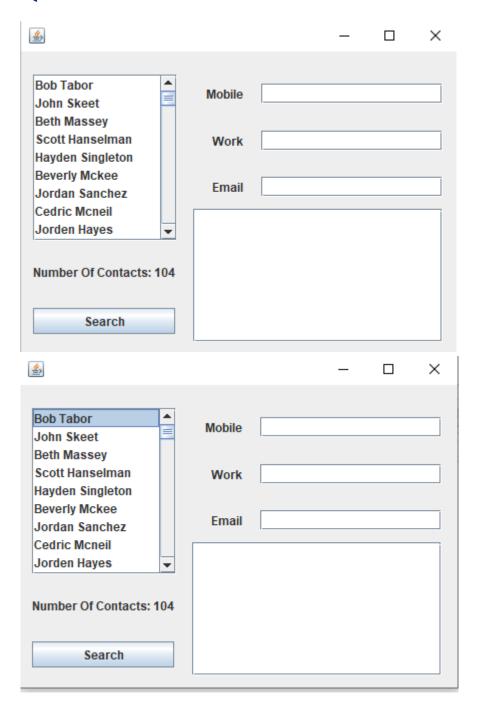
DVD Sales: 500000 Blue Ray Sale: 500000 Total: 1700000 Enter a number Between 1 and 5 :

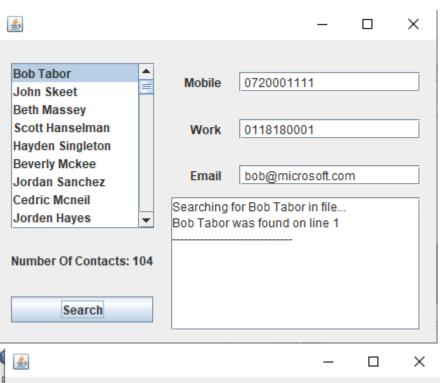
Enter a number Between 1 and 5

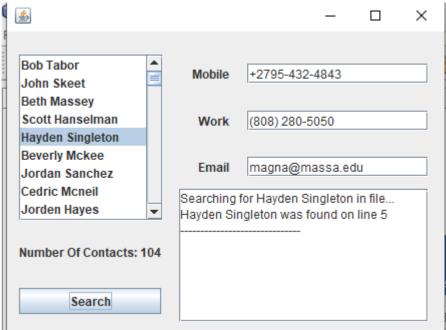
Content:

Running App:

Question1:







Question 2:

ougger Console ×	Fa2 Projec	ct (run) ×		
ILULIU IIIIIC		DVD DUIL	Din mai pair	10001
l. Ed Sheeran	700000	500000	500000	3900000
	800000			4850000
3. Bruno Mars	100000	200000	200000	5350000
4. Foo Fighter	800000	100000	50000	6300000
Total Enter a number		1600000 1 and 5:	1250000	
			1250000	
Enter a number	between		1250000	
Enter a number 1	between ink		1250000	
Enter a number 1 Artist Name: Pi	between ink		1250000	

Code:

Question1:

```
/*
  * To change this license header, choose License Headers in Project Properties.
  * To change this template file, choose Tools | Templates
  * and open the template in the editor.
  */
  package fa2.project;

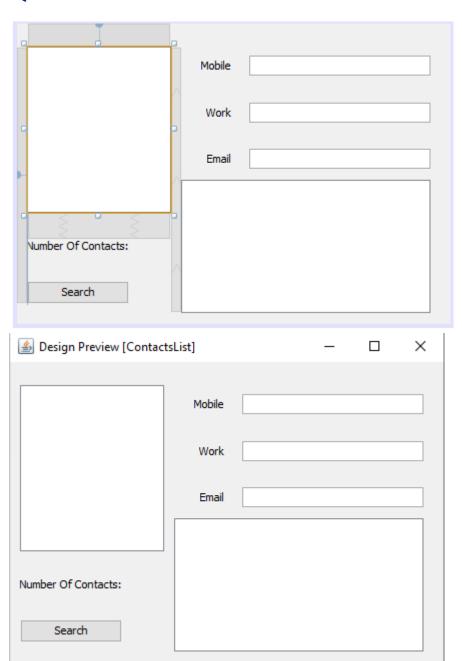
import java.io.File;
import java.io.FileNotFoundException;
import java.nio.charset.StandardCharsets;
import java.util.Scanner;
import java.util.Scanner;
import javax.swing.JOptionPane;
```

```
* @author albert michael ludick
public class Fa2Project {
    * @param args the command line arguments
   public static void main(String[] args) throws FileNotFoundException {
       // TODO code application logic here
       ContactsList list = new ContactsList();
       list.setVisible(true);
       System.out.print("Artist Name");
       System.out.print(" CD Sale");
       System.out.print(" DVD Sale");
       System.out.print("
                            Blu Ray Sale");
       System.out.println("
                             Total");
       System.out.println("-----
       String[][] artistArray = new String[5][4];
       String[] Artist = new String[5];
       File file = new File("Artists.txt");
       Scanner scanner=null;
       try{
           scanner = new Scanner(file,StandardCharsets.UTF 8.name());
```

```
try{
   scanner = new Scanner(file,StandardCharsets.UTF 8.name());
   for(int i=0;scanner.hasNext();i++){
       String[] lines = scanner.nextLine().split(",");
       Artist[i]=lines[0];
       artistArray[i][0] = lines[1];
       artistArray[i][1] = lines[2];
       artistArray[i][2] = lines[3];
       artistArray[i][3] = lines[4];
   int i = 0;
   for (String item : Artist) {
        ++i;
        if(i!=5)
        +" "+"\t"+artistArray[i][1]+" "
                         +"\t"+artistArray[i][2]
                             +" "+"\t"+artistArray[i][3]);
   System.out.println("---
   int cdSale=0;
   int dvdSale=0;
   int bluRaySale=0;
  for(int k=0; k<4; k++) {
        if(k!=4){
    cdSale=cdSale+Integer.parseInt(artistArray[k][0]);
    dvdSale=dvdSale+Integer.parseInt(artistArrav[k][]]);
```

```
for(int k=0; k<4; k++) {
          if(k!=4){
    cdSale=cdSale+Integer.parseInt(artistArray[k][0]);
    dvdSale=dvdSale+Integer.parseInt(artistArray[k][1]);
    bluRaySale=bluRaySale+Integer.parseInt(artistArray[k][2]);
   System.out.println("
                                Total "+" "+cdSale+" "+dvdSale
                                                            +bluRaySale);
   int totale=cdSale+dvdSale+bluRaySale;
   System.out.println("Enter a number between 1 and 5: ");
   scanner = new Scanner(System.in);
   int userAns=scanner.nextInt();
   System.out.println("Artist Name: "+Artist[userAns]);
  System.out.println("CD Sale: "+artistArray[userAns][0]);
  System.out.println("DVD Sale: "+artistArray[userAns][1]);
   System.out.println("Blu Ray Sale: "+artistArray[userAns][2]
                                                   +"
                                                        Total: "+totale);
}catch(FileNotFoundException ex){
    JOptionPane.showMessageDialog(null, ex, "Error Message"
                   , JOptionPane . ERROR MESSAGE);
}finally {
  if (scanner != null) scanner.close();
```

Question2:



```
* To change this license header, choose :
 * To change this template file, choose To
 * and open the template in the editor.
package fa2.project;
import java.io.File;
import java.io.FileNotFoundException;
import java.nio.charset.StandardCharsets;
import java.util.Scanner;
import javax.swing.DefaultListModel;
import javax.swing.JOptionPane;
public class ContactsList extends javax.swing.JFrame {
private static final String[][] Multiarray=new String[104][4];
private final DefaultListModel<String> model = new DefaultListModel<>();
     * Creates new form ContactsList
    public ContactsList() {
        initComponents();
        FileReader ("Contacts.txt");
        lblNumOfContacts.setText("Number Of Contacts: "
                +model.getSize());
     ^{\star} This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
    @SuppressWarnings("unchecked")
    Generated Code
```

```
private void btnSearchActionPerformed(java.awt.event.ActionEvent evt) {
    if (lbContacts.getSelectedIndex() < 0) {</pre>
        JOptionPane.showMessageDialog(null, "you hvae selected nothing "
                                          + "from the contact list");
    }else{
        taResult.setText(null);
        taResult.append("Searching for "+lbContacts.getSelectedValue()
               +" in file... "+"\n"
               +lbContacts.getSelectedValue()+" was found on line "
               +(lbContacts.getSelectedIndex()+1)
               +"\n"+"----
       try
               txtMobile.setText(null);
              txtMobile.setText(Multiarray[lbContacts.getSelectedIndex()]
                   [0]);
              txtWork.setText(null);
              txtWork.setText(Multiarray[lbContacts.getSelectedIndex()]
                   [1]);
              txtEmail.setText(null);
               txtEmail.setText(Multiarray[lbContacts.getSelectedIndex()]
        catch (ArrayIndexOutOfBoundsException ex)
```

```
private void btnSearchActionPerformed(java.awt.event.ActionEvent evt) {
   if (lbContacts.getSelectedIndex()<0) {</pre>
       JOptionPane.showMessageDialog(null, "you hvae selected nothing "
                           + "from the contact list");
   }else{
       taResult.setText(null);
       taResult.append("Searching for "+lbContacts.getSelectedValue()
               +" in file... "+"\n"
               +lbContacts.getSelectedValue()+" was found on line "
               +(lbContacts.getSelectedIndex()+1)
       try
              txtMobile.setText(null);
              txtMobile.setText(Multiarray[lbContacts.getSelectedIndex()]
                  [0]);
              txtWork.setText(null);
              txtWork.setText(Multiarray[lbContacts.getSelectedIndex()]
                      [1]);
              txtEmail.setText(null);
              txtEmail.setText(Multiarray[lbContacts.getSelectedIndex()]
                      [2]);
       catch (ArrayIndexOutOfBoundsException ex)
          JOptionPane.showMessageDialog(null, ex, "Error Message"
              , JOptionPane . ERROR MESSAGE);
```

```
/**
  * @param args the command line arguments
  */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    Look and feel setting code (optional)

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new ContactsList().setVisible(true);
        }
    });
}
```

```
private void FileReader (String path) {//net nog die jlist klaar maak
   Scanner scanner=null;
   try{
       File file = new File(path);
       scanner = new Scanner(file.getAbsoluteFile()
                                           ,StandardCharsets.UTF 8.name());
       for(int i=0;scanner.hasNext();i++){
           String[] lines = scanner.nextLine().split(",");
           Multiarray[i][0] = lines[1];
           Multiarray[i][1] = lines[2];
           Multiarray[i][2] = lines[3];
           model.addElement(lines[0]);
           lbContacts.setModel(model);
   }catch(FileNotFoundException ex){
       JOptionPane.showMessageDialog(null, ex, "Error Message"
                       , JOptionPane . ERROR MESSAGE);
   finally {
      if (scanner != null) scanner.close();
```

```
// Variables declaration - do not modify
private javax.swing.JButton bensearch;
private javax.swing.JLabel plabel;
private javax.swing.JLabel plabel;
private javax.swing.JLabel plabel;
private javax.swing.JScrollPane psonoidlanel;
private javax.swing.JList<String> lbContacts;
private javax.swing.JScrollPane private javax.swing.JScrollPane private javax.swing.JLabel plabel private javax.swing.JLabel private javax.swing.JTextArea talksoul;
private javax.swing.JTextField talksoul;
```

Conclusion:

I made the contacts app to work as it should and the console app works just as well.

References:

Websites:

https://www.geeksforgeeks.org/arrays-in-java/

https://www.tutorialspoint.com/java/java arrays.htm

books:

Java The Complete Reference - 10th Edition (PDFDrive.com)

NetBeans IDE 8 Cookbook.pdf (PDFDrive.com)

Java. Programming. From. Problem. Analysis. to. Program. Design. 4th. Edition

Appendix:



ALbert Michael Ludick	hereby
(FULL NAME)	
declare that the contents of this assignment Fa 2 advance java work except for the following documents: (List the documents and portfolio that were generated in a group)	
Activity	Date
made the contacts list app	2020/09/20
and the artists app	2020/09/20