JAMII CHAMA SOFTWARE REPORT

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PRESENTED TO:

MR. MUIGAI

(ECE 363)

(OBJECT ORIENTED PROGRAMMING)

NOVEMBER 27, 2015

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COURSE CODE: COE 363

COURSE TITLE: OBJECT ORIENTED PROGRAMMING

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DATE: FRI: 27TH NOVEMBER 2015.

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TASK: **A Report of "Jamii Chama Members Manager and Monitor Software in Java" By Kithinji A. Muriungi**

SIGN:

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EC/09/14

Input Data can be stored in either of the three ways:-

1. Storing through vector
2. Storing with file
3. Storing with database

A. When Storing Input Data through Vectors:-

1. java.util.Vector is used to implement the vector class
2. You define a class and within it also define vector and also an object of another class using the names of your choice. I.e. mine is "**Person"**
3. Now the **Person object** is made to store basic input data as desired by the user. And we use vector to store this information in easy manner
4. We define a loop and call the start method as many times as earlier defined passing new input data to start method each time as an argument. Another Method Called "**start"**
5. In **start** method we are setting information on **person** object and storing this information in vector a using the **add** method of vector. Another Method Called "**add"**
6. Since the loop run as many times as defined, so the vector will record such input records as defined and save them which you may use for future purpose.
7. We can use the **show** method to show all the data inside the vector.
8. In **show** method we run a loop from 0 to vector size so that each element in vector gets processed. In next step we display the information.
9. After that we defined a **class** called **Person** which will define the variable info within it. We have defined setters and getters for these.

Advantages of Using Vectors to Store Data:

1. One Can Update the Existing Data Easily.
2. Data can be Manipulated Easily.

DisAdvantages of Using Vectors to Store Data:

1. Stored data are lost once the session is terminated and hence the data are stored temporary.
2. No future reference for the Input Data.
3. In case of an error, it's not easy to correct since after every execution the data is lost.

B. When Storing Input Data Using Text Files:-

1. Include **FileWriter** and **BufferedWriter** to include functionality to **write to file.**
2. Make a class and name it. I.E. **StorageFile**
3. Make an object of **class Person** which contain info about person.
4. Define the main method and define the object of StorageFile class.
5. Call the start method of this class which will write data to file.
6. Define the start object and then make objects for File Writer and BufferedWriter. Now they are used to write the information using the msg function of Class Person.
7. After writing to file close the stream. Remember in FileWriter give it 2 arguments which are file path and the other argument that is true tell that we want to append in the file
8. Capture all exception which may occur
9. Define the Person class which define the data given. Also define setter and getter for the same. Also define a msg function which will return the input data for current object

Advantages of Using Text File to Store Data:

1. Input Data can be permanently stored.
2. Manipulation of input in future is very easy.
3. In case of any error, it's very easy to correct since stored data remains even after end of execution and even termination of the program.
4. Future reference of the stored input data is very possible.

DisAdvantages of Using Text File to Store Data:

1. Update of stored data directly from the text file is relatively difficult.

Advantages of Using Database to Store Data:

i. Input Data can be permanently stored.
ii. Manipulation of input in future is very easy.
iii. In case of any error, it's very easy to correct since stored data remains even after end of execution and even termination of the program.
iv. Future reference of the stored input data is very possible.
v. Update of existing data is very easy.

Advantages of Using Database to Store Data:

i. It require more technical skills than the other two methods.
ii. It requires extra configurations and other application software to work efficiently.
iii. It's relatively expensive to implement since some may require internet connection.

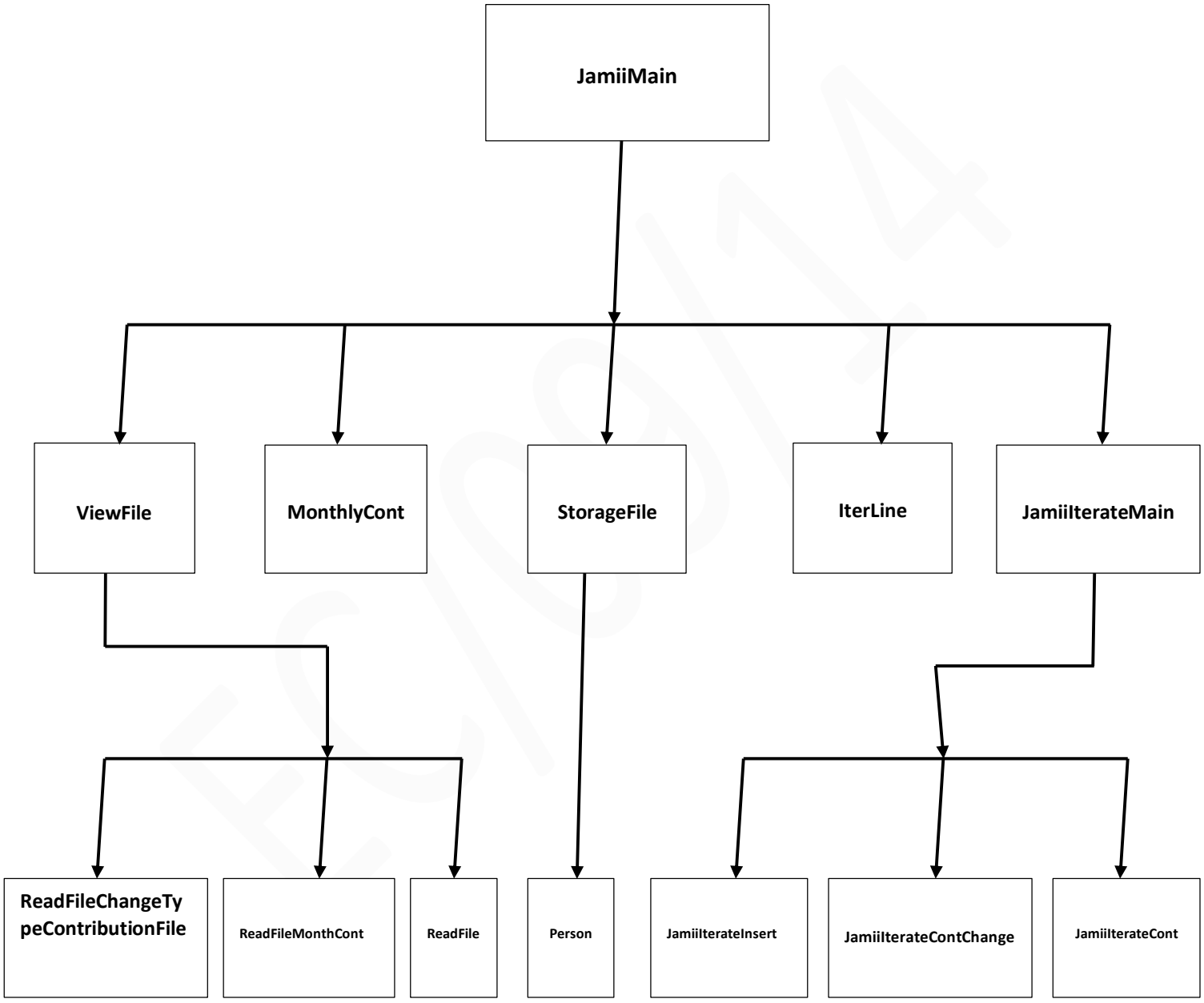
Assumptions

1. The automatic **UPDATE** of the existing input data in the text file is relatively hard compared to the use of Database.
2. **REMOVE** of a specific members is also very hard. One should be knowing the line in which the member exists in the Text file in order to be able to delete.
3. Smooth **ITERATION** is also relatively hard with Text File compared with use of vector/Array and database.
4. List of Monthly Contributions of the Members cannot be updated automatically hence it's not easy to sum contributions of a specific member directly.
5. When a member changes the Membership, it cannot be updated directly hence the names will end up being left in two lists.
6. In case of a wrong data entry, one needs to access the Text file to remove it manually.

Design of the Jamii Chama Software

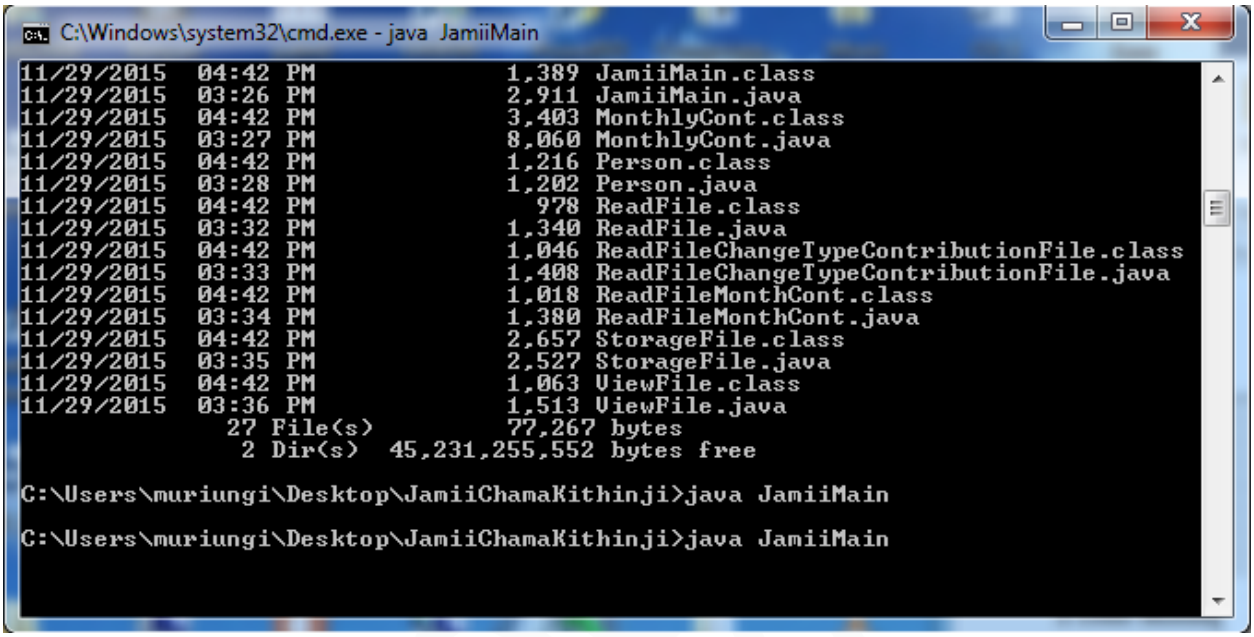
The Software has a total of 13 classes with one Main class (JamiiMain.Java) which is executable. The Skeleton Structure below represents the Jamii Chama Software.

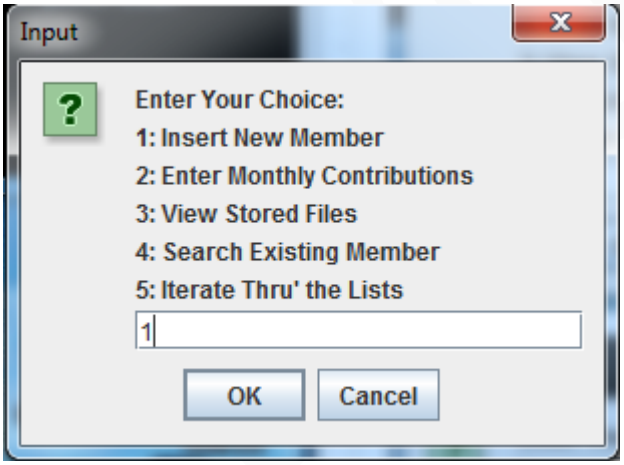
The Rectangular boxes represents the Classes. JamiiMain is the main class.

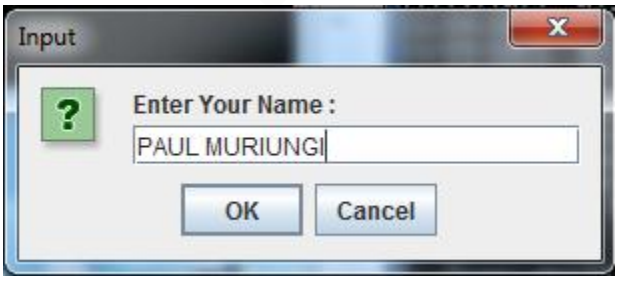


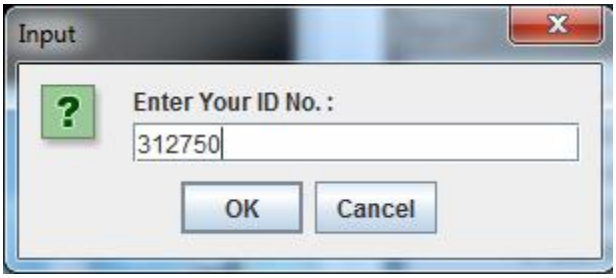
WORKING OF THE JAMII CHAMA SOFTWARE

1. *INSERTING NEW MEMBER*





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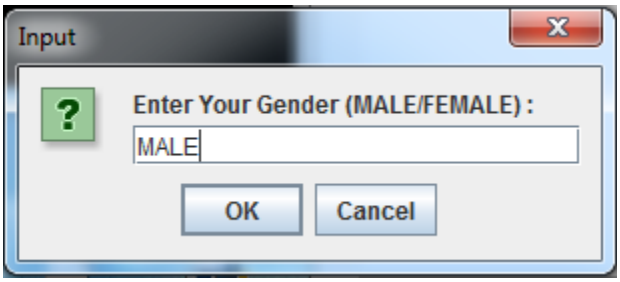
OK
Cancel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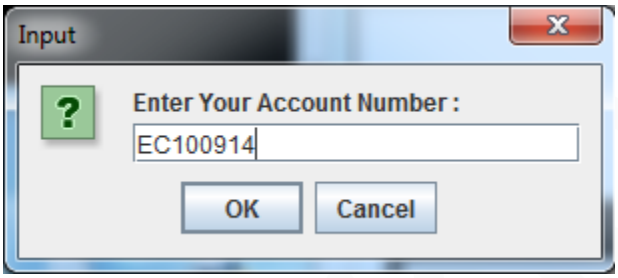
Enter Your Gender (MALE/FEMALE) :
MALE
OK
Cancel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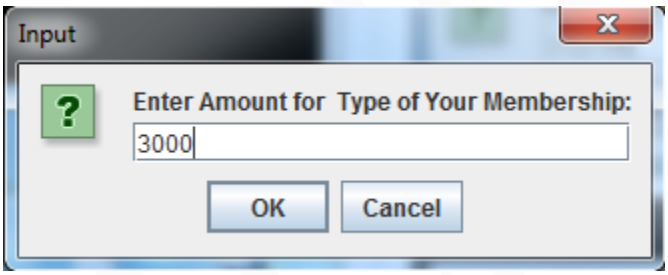
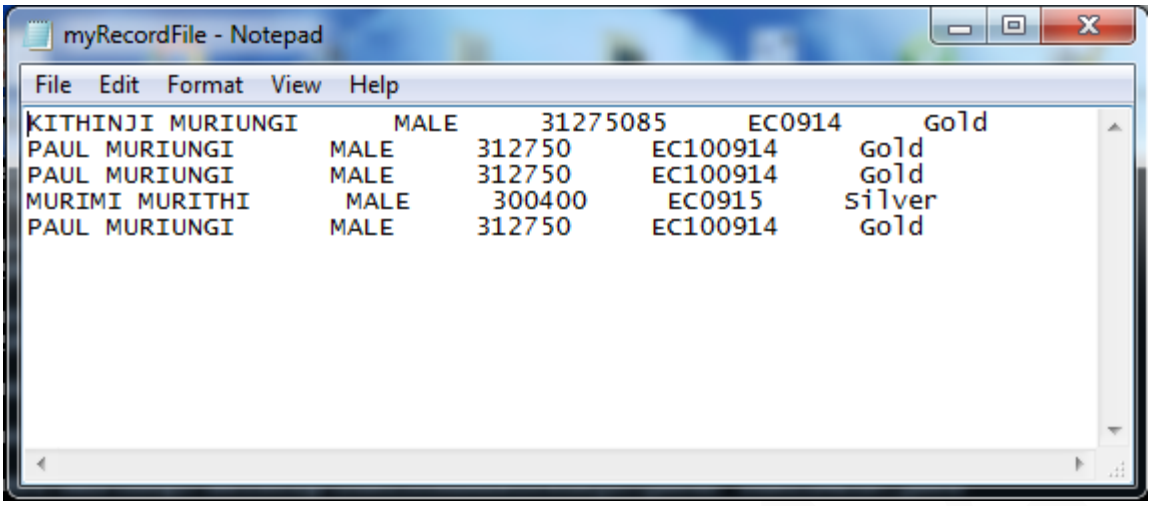
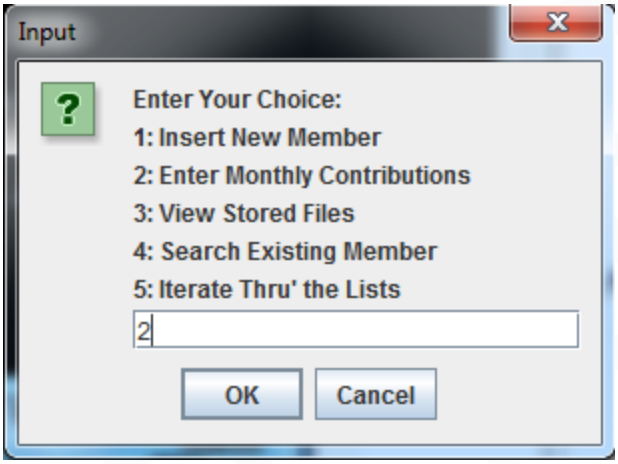

Input
Enter Amount for Type of Your Membership:
3000
OK
Cancel

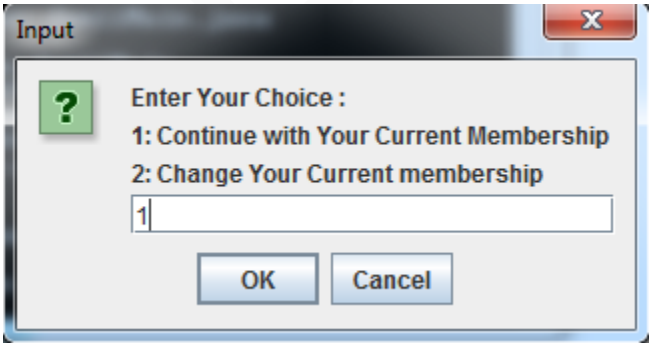
Message
THANK YOU
FOR REGISTERING WITH
JAMII CHAMA.
OK

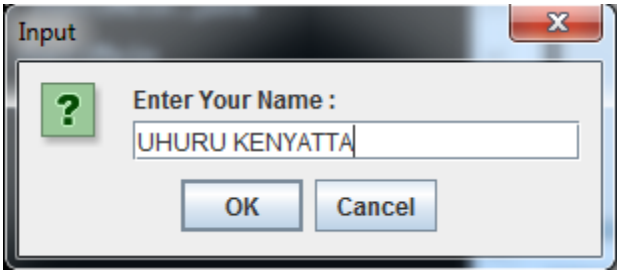


2. *INPUTING MONTHLY CONTRIBUTIONS*



i. Continue With the Current Membership




Input
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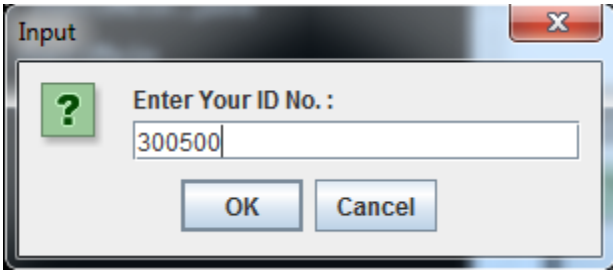
UHURU KENYATTA
OK
Cancel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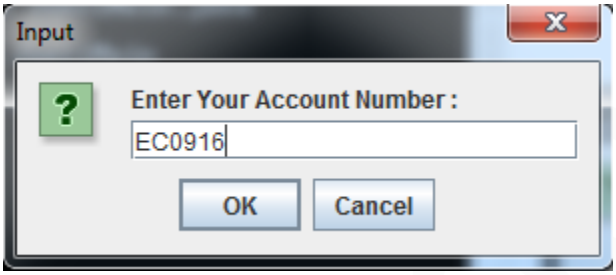
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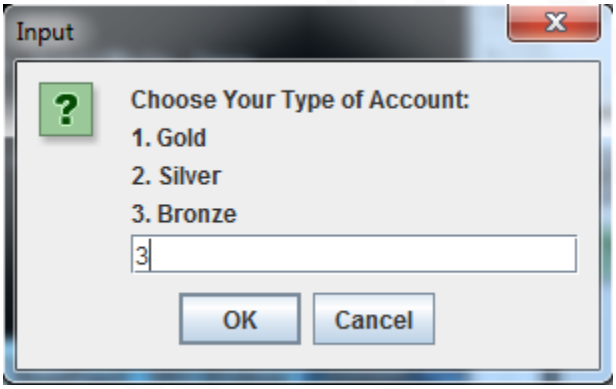
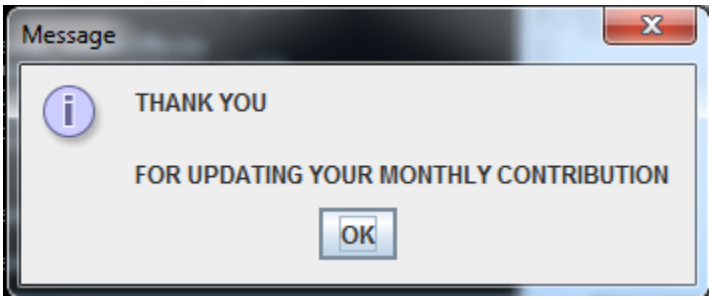
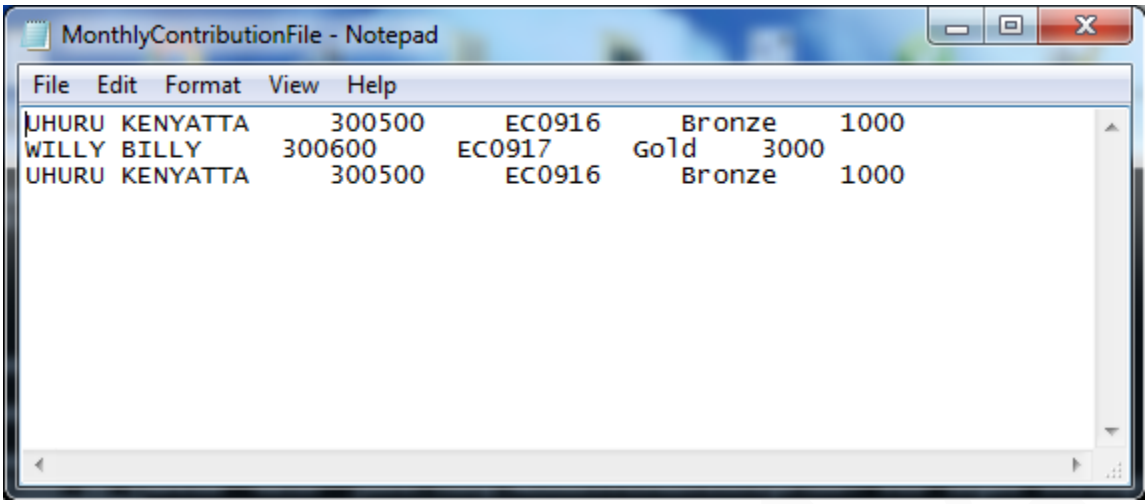
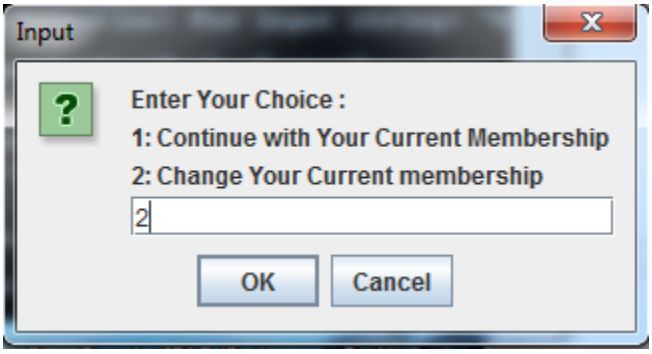
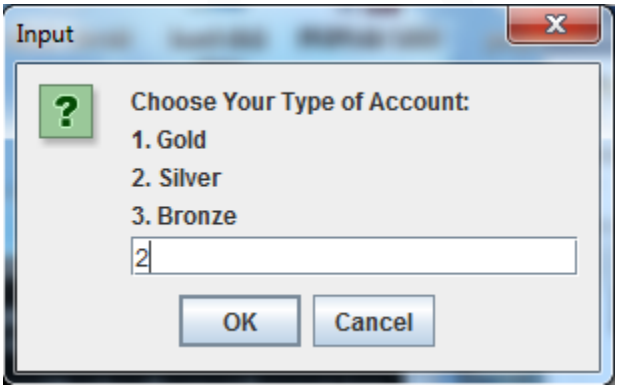

Input
Choose Your Type of Account:
1. Gold
2. Silver
3. Bronze
3
OK
Cancel

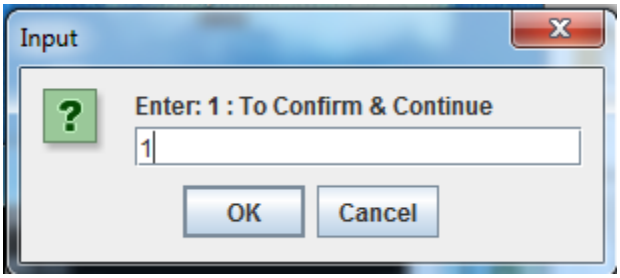

Message
THANK YOU
FOR UPDATING YOUR MONTHLY CONTRIBUTION
OK

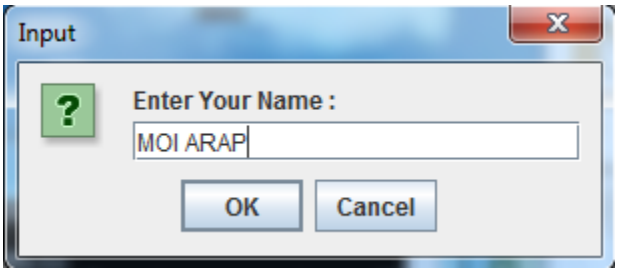


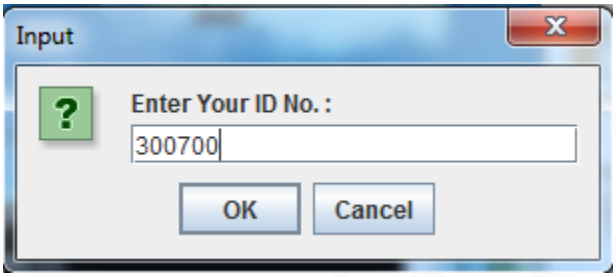
ii. Changing Current Membership






Input
Enter: 1 : To Confirm & Continue
1
OK
Cancel


Input
Enter Your Name :
MOI ARAP
OK
Cancel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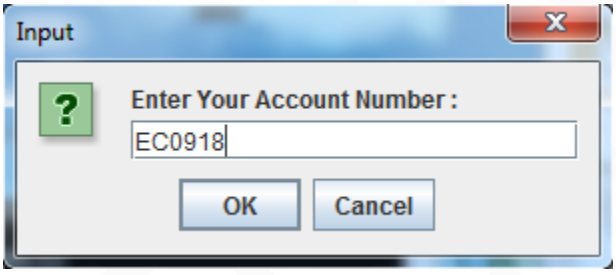
Cancel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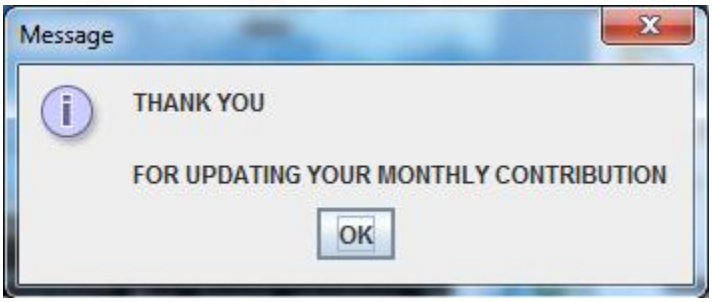
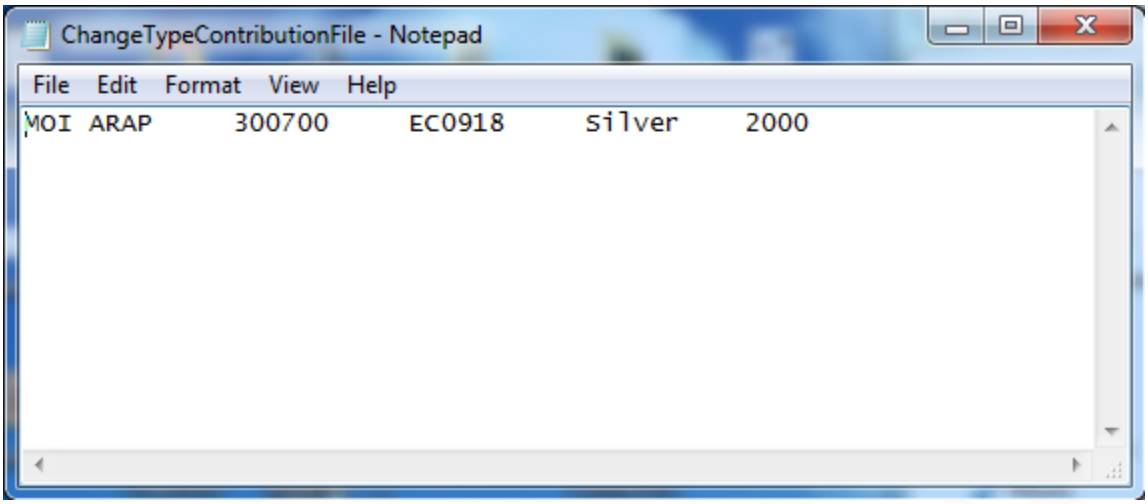
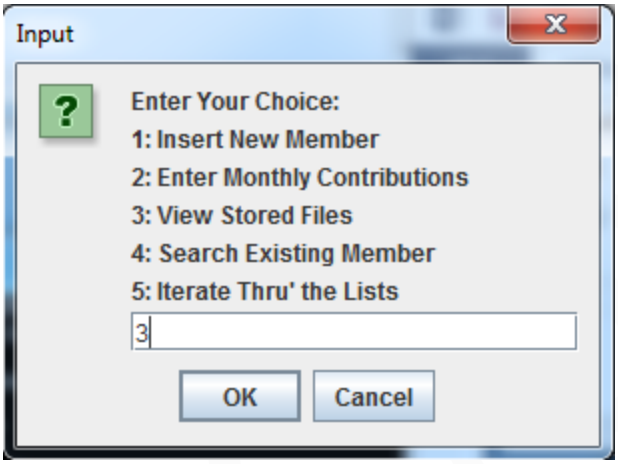
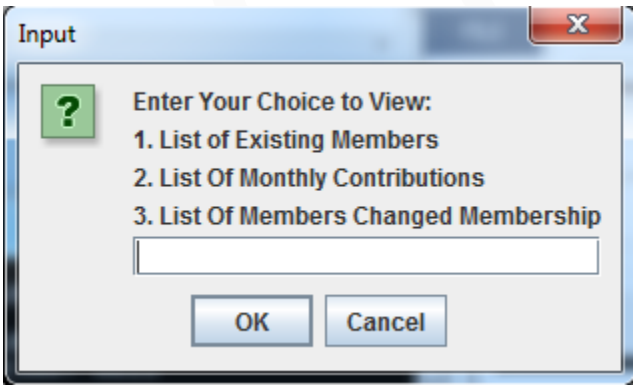

Message
THANK YOU
FOR UPDATING YOUR MONTHLY CONTRIBUTION
OK



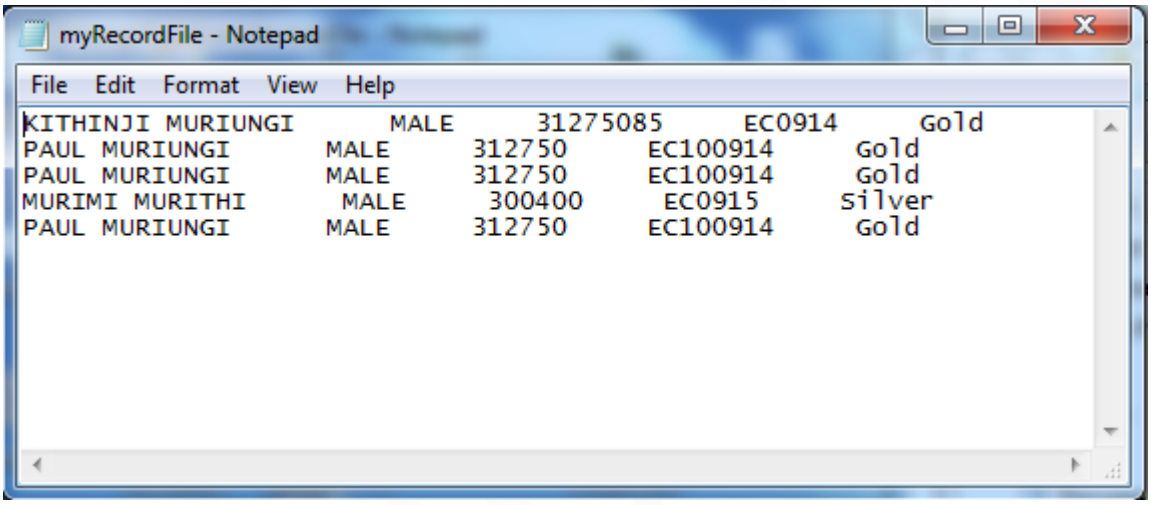
3. *VIEW STORED FILES*



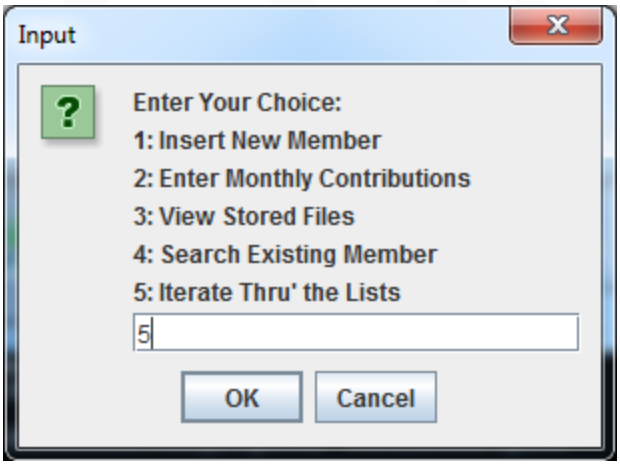


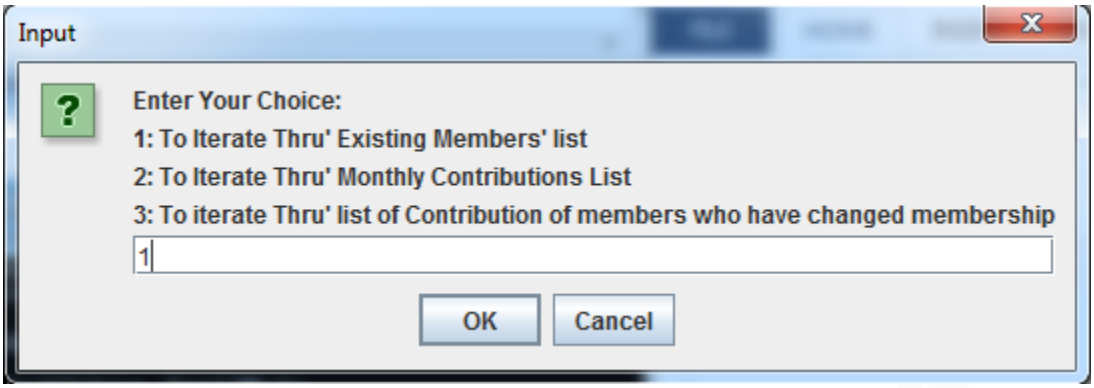
```
C:\Users\muriungi\Desktop\JamiiChamaKithinji>javac JamiiMain.java

C:\Users\muriungi\Desktop\JamiiChamaKithinji>java JamiiMain

C:\Users\muriungi\Desktop\JamiiChamaKithinji>java JamiiMain
KITHINJI MURIUNGI      MALE     31275085     EC0914     Gold
PAUL MURIUNGI       MALE     312750     EC100914     Gold
PAUL MURIUNGI       MALE     312750     EC100914     Gold
MURIMI MURITHI       MALE     300400     EC0915     Silver
PAUL MURIUNGI       MALE     312750     EC100914     Gold

C:\Users\muriungi\Desktop\JamiiChamaKithinji>
```

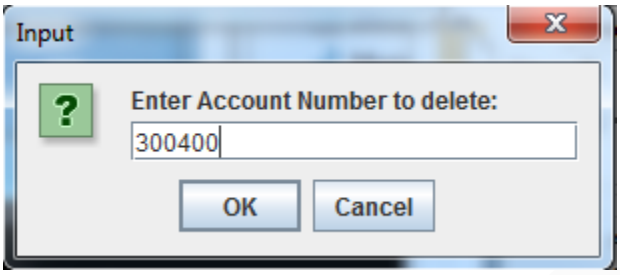
Comparison

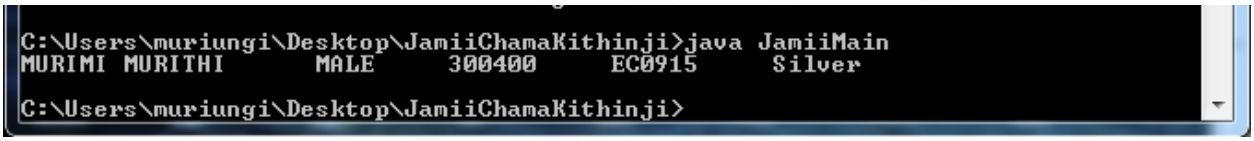


4. Iterating Through the List Of Members

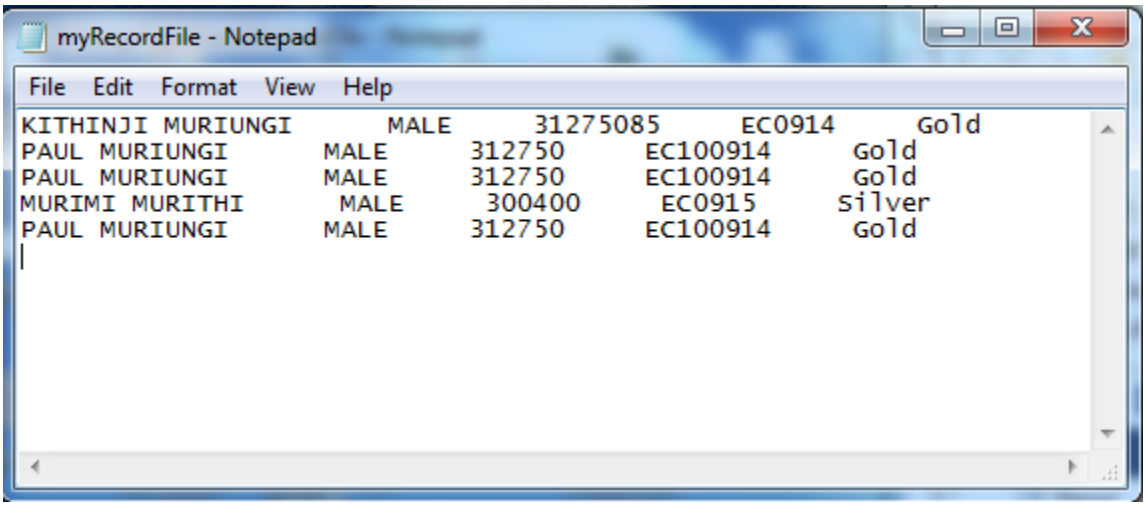



Input
Enter Your Choice:
1: To Iterate Thru' Existing Members' list
2: To Iterate Thru' Monthly Contributions List
3: To iterate Thru' list of Contribution of members who have changed membership
1
OK
Cancel


Input
Enter Account Number to delete:
300400
OK
Cancel

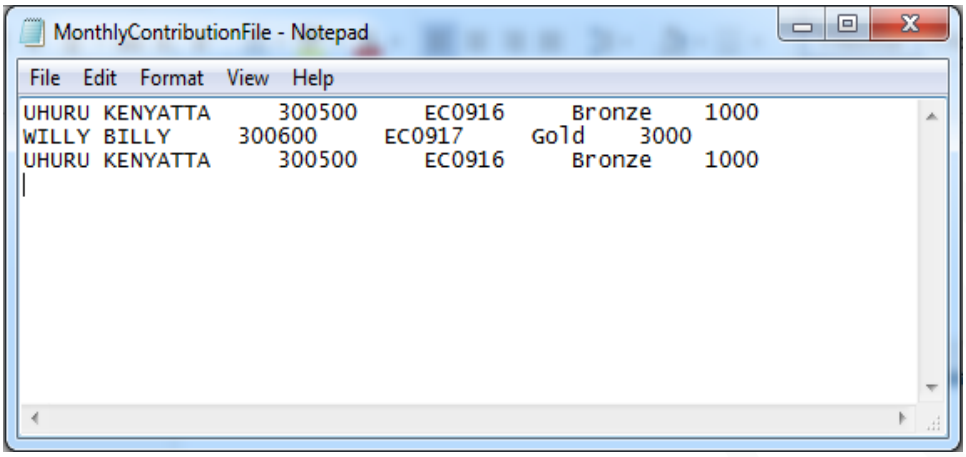

C:\Users\muriungi\Desktop\JamiiChamaKithinji>java JamiiMain
MURIMI MURITHI MALE 300400 EC0915 Silver
C:\Users\muriungi\Desktop\JamiiChamaKithinji>

Comparison

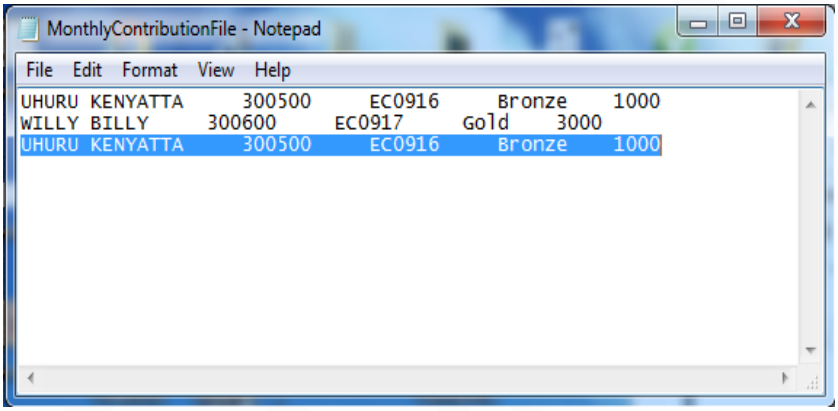

myRecordFile - Notepad
File Edit Format View Help
KITHINJI MURIUNGI MALE 31275085 EC0914 Gold
PAUL MURIUNGI MALE 312750 EC100914 Gold
PAUL MURIUNGI MALE 312750 EC100914 Gold
MURIMI MURITHI MALE 300400 EC0915 Silver
PAUL MURIUNGI MALE 312750 EC100914 Gold

5. *DELETING AN EXISTING MEMBER FROM A TEXT FILE*

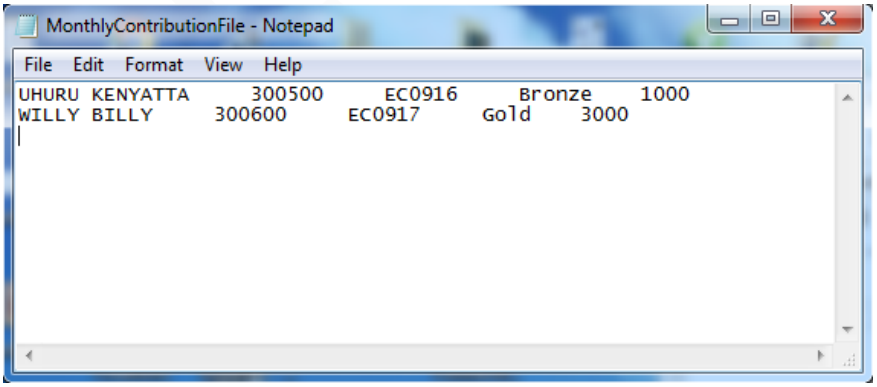
i. Go To the File Where The Existing Member Who Is To Be Deleted Is



ii. Select the Details Of The Member



iii. Enter <Delete> To Delete



JAMII CHAMA SOFTWARE CODES IN JAVA

JamiiMain.java

```
//File Name : JamiiMain.java
//This is the MAIN CLASS that is EXECUTABLE
//It executes all other classes
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.IOException;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class JamiiMain{
    public static void main (String[] args) throws IOException{
        int choice;
        Scanner inputChoice = new Scanner(System.in);
        String MyChoice =  JOptionPane.showInputDialog("Enter Your Choice:"
                + " \n1: Insert New Member\n"
                + "2: Enter Monthly Contributions\n"
                + "3: View Stored Files\n"
                + "4: Search Existing Member\n"
                + "5: Iterate Thru' the Lists");

        choice = Integer.parseInt(MyChoice);
        switch(choice){

            case 1:
```

```
                //You can insert NEW MEMBER using this class
                //The list of Inserted members is stored in myRecordFile.txt
                StorageFile InsertFileObject = new StorageFile();
                InsertFileObject.InsertFile();
                break;

            case 2:
                //Monthly contribution can be done in this class
                // An existing member can continue with his/her membership or
change
                //All Members who continue with their current membership are
stored in MonthlyContributionFile.txt
                //All Members who change their membership are stored in
ChangeTypeContributionFile.txt
                MonthlyCont ContributionsObject = new MonthlyCont();
                ContributionsObject.Contributions();
                break;
            case 3:
                //This class allows one to VIEW the files of Existing members
                //One can either VIEW from myRecordFile,
MonthlyContributionFile or ChangeTypeContributionFile.txt
                //One can view one list at a time
                ViewFile ViewObject = new ViewFile();
                ViewObject.View();
                break;

                case 4:
                    //This allows one to view the member by inputting his/her
Account Number
                IterLine SearchObject = new IterLine();
                SearchObject.Search();
                break;

                case 5:
```

```
                    // This class allows one to Iterate thru'the Specific
list of Members
                JamiiIterateMain IterateObject = new JamiiIterateMain();
                IterateObject.iterateMain();
                break;


            default:
                JOptionPane.showMessageDialog(null,"Ooops!!! ... Wrong
Choice.");
                break;
        }

    }
}
```

EC/09/14

StorageFile.java

```
//File Name : StorageFile.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.BufferedWriter;
import java.io.FileWriter;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class StorageFile
{
      Person p = new Person();
        Scanner input = new Scanner (System.in);
        MonthlyCont countribution = new MonthlyCont();

            String gold="Gold";
            String silver="Silver";
            String bronze="Bronze";
            String nill ="NULL";

      public void InsertFile(){
            StorageFile store = new StorageFile();
            for(int i=0;i<1;i++)
                  store.start("name" ,"id", "gender", "account",
"membership");
```

```
            JOptionPane.showMessageDialog(null, "THANK YOU \nFOR REGISTERING
WITH \nJAMII CHAMA. ");

      }

      public void start(String name,String id,String gender,String
account,String membership)

      {


            name = JOptionPane.showInputDialog("Enter Your Name :");


            id = JOptionPane.showInputDialog("Enter Your ID No. :");


            gender = JOptionPane.showInputDialog("Enter Your Gender
(MALE/FEMALE) :");


            account = JOptionPane.showInputDialog("Enter Your Account Number
:");


            String MyAmount = JOptionPane.showInputDialog("Enter Amount for
Type of Your Membership:");


            double amount = Double.parseDouble(MyAmount);

            {


            if(amount==3000){

               membership = gold;

            }


            else if(amount==2000){

               membership = silver;

            }

            else if(amount==1000){

               membership = bronze;

            }

            else {
```

```
                membership = nill;
            }


            }



            p.setId(id);
            p.setName(name);
            p.setGender(gender);
            p.setAccount(account);
            p.setMembership(membership);



            try
            {
            FileWriter fw=new FileWriter("myRecordFile.txt",true);

            BufferedWriter bw=new BufferedWriter(fw);

            bw.write(p.msg());
            bw.newLine();
            bw.close();
            }
            catch(Exception e)
            {
                  e.printStackTrace();
                  System.out.println("There is an Error in the Program!!!
"+e.getMessage());
            }
      }
}
```

Person.java

```
//File Name : Person.java
//Its Executed in the main class (StorageFile.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

class Person
{
      String name;
      String id;
        String gender;
        String account;
        String membership;


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

        public void setGender(String gender) {
            this.gender = gender;
      }
        public String getGender() {
            return gender;
```

```
	}


	  public void setAccount(String account) {
	      this.account = account;
	}
	  public String getAccount() {
	      return account;
	}



	  public void setMembership(String membership) {
	      this.membership = membership;
	}
	  public String getMembership() {
	      return membership;
	}

	public void setId(String id) {
	      this.id = id;
	}

	  public String getId() {
	      return id;
	  }
	public String msg()
	{
	      return this.name+"      "+this.gender+"     "+this.id+"
"+this.account+"     "+this.membership;
	}
}
```

MonthlyCont.java

```
//File Name : MonthlyCont.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM


import java.io.BufferedWriter;
import java.io.FileWriter;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class MonthlyCont {

        String name;
      String id;
        String account;
        int MembCheck;
        String MonthAmount;
        String  accType;
        String newType;
        int confirm;
        int newAccType;
        String gold = "3000";
        String silver = "2000";
        String bronze = "1000";
        String goldG = "Gold";
```

```
        String silverS = "Silver";
        String bronzeB = "Bronze";


       public String msg()
      {
      return name+"     "+id+"     "+account+"     "+accType+"
"+MonthAmount;
      }

      public String Contributions(){


            Scanner inputCont = new Scanner(System.in);


                String MyChoice =  JOptionPane.showInputDialog("Enter Your
Choice :\n1: Continue with Your Current Membership \n2: Change Your Current
membership ");

                MembCheck = Integer.parseInt(MyChoice);


            switch (MembCheck){

                  case 1:

              name = JOptionPane.showInputDialog("Enter Your Name :");
            id = JOptionPane.showInputDialog("Enter Your ID No. :");
     account = JOptionPane.showInputDialog("Enter Your Account Number :");
   String MyNewAccType =  JOptionPane.showInputDialog("Choose Your Type of
Account:\n1. Gold\n2. Silver\n3. Bronze");

                        newAccType = Integer.parseInt(MyNewAccType);
```

```
                    if (newAccType == 1){

                        MonthAmount = gold;

                        accType = goldG;
                    }
                    else if(newAccType == 2){

                        MonthAmount = silver;

                        accType = silverS;
                    }
                    else if (newAccType == 3){

                        MonthAmount = bronze;

                        accType = bronzeB;
                    }
                    else{
JOptionPane.showMessageDialog(null,"Ooops....Wrong Choice Of Membership!!!");
                    }

                    try
                        {
                        FileWriter fw=new
FileWriter("MonthlyContributionFile.txt",true);

                        BufferedWriter bw=new BufferedWriter(fw);

                        bw.write(msg());
                        bw.newLine();
```

```
                    bw.close();
                    }
                        catch(Exception e)
                        {
                            e.printStackTrace();
                            System.out.println("There is an Error in
the Program!!! "+e.getMessage());
                        }

                    JOptionPane.showMessageDialog(null,"
      THANK YOU                    \n\nFOR UPDATING YOUR MONTHLY
CONTRIBUTION ");
                    break;

                case 2:

                    String NewAccType =
JOptionPane.showInputDialog("Choose Your Type of Account: \n1. Gold \n2.
Silver \n3. Bronze");

                    newAccType = Integer.parseInt(NewAccType);
                    if (newAccType == 1){

                        MonthAmount = gold;

                        accType = goldG;
                    }
                    else if(newAccType == 2){

                        MonthAmount = silver;

                        accType = silverS;
                    }
                    else if (newAccType == 3){
```

```
                    MonthAmount = bronze;


                    accType = bronzeB;
                }
                else{

JOptionPane.showMessageDialog(null,"Ooops....Wrong Choice Of Membership!!!");
                }
                if (newAccType == 1){
                    //MonthAmount = gold;
                    accType = goldG;
                }
                else if(newAccType == 2){
                   // MonthAmount = silver;
                    accType = silverS;
                }
                else if (newAccType == 3){
                    //MonthAmount = bronze;
                    accType = bronzeB;
                }
                else{

JOptionPane.showMessageDialog(null,"Ooops....Wrong Choice Of Membership!!!");
                }
String MyConfirm =  JOptionPane.showInputDialog("Enter: 1 : To Confirm &
Continue");
                confirm = Integer.parseInt(MyConfirm);


                if (confirm == 1){
            name = JOptionPane.showInputDialog("Enter Your Name :");


              id = JOptionPane.showInputDialog("Enter Your ID No. :");
```

```
account = JOptionPane.showInputDialog("Enter Your Account Number :");
                        try
                            {
                            FileWriter fw=new
FileWriter("ChangeTypeContributionFile.txt",true);


                            BufferedWriter bw=new BufferedWriter(fw);
                            bw.write(msg());
                            bw.newLine();
                            bw.close();
                            }
                                catch(Exception e)
                                {
                                    e.printStackTrace();
                                    System.out.println("There is an Error in
the Program!!! "+e.getMessage());
                                }
                        }
                        else{
            JOptionPane.showMessageDialog(null,"Ooops!!! Wrong Choice...");
                        }
JOptionPane.showMessageDialog(null, "                        THANK YOU
             \n\nFOR UPDATING YOUR MONTHLY CONTRIBUTION ");
                        break;
                    default:
                         JOptionPane.showMessageDialog(null,"Ooops!!! Wrong
Choice...");
                        break;


                }
            return null;
        }
}
```

ViewFile.java

```
//File Name : ViewFile.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM



import javax.swing.JOptionPane;


public class ViewFile{
    int choice;
    public void View(){


        String MyAmount = JOptionPane.showInputDialog("Enter Your Choice to
View:\n1. List of Existing Members \n2. List Of Monthly Contributions \n3.
List Of Members Changed Membership");


            choice = Integer.parseInt(MyAmount);
            switch(choice){
                case 1:
                    ReadFile ReadFileObject = new ReadFile();
                            ReadFileObject.myRecordFileView();
                    break;


                case 2:
                    ReadFileMonthCont monthcontViewObject= new
ReadFileMonthCont();
```

```
monthcontViewObject.MonthlyContributionFileView();
                    break;


                case 3:
                    ReadFileChangeTypeContributionFile
ChangeContFileViewObject = new ReadFileChangeTypeContributionFile();
                            ChangeContFileViewObject.ChangeContFileView();
                    break;


                default:
                    JOptionPane.showMessageDialog(null,"Ooops!!! ... Wrong
Choice.");
                    break;


            }
    }
}
```

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ReadFile.java

```
//File Name : ReadFile.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.*;


 public class ReadFile
 {
    public static void myRecordFileView()
    {
       //System.out.println("Reading File from Java code");
       //Name of the file
       String fileName="myRecordFile.txt";
       try{

          //Create object of FileReader
          FileReader inputFile = new FileReader(fileName);

          //Instantiate the BufferedReader Class
          BufferedReader bufferReader = new BufferedReader(inputFile);

          //Variable to hold the one line data
          String line;
```

```
            // Read file line by line and print on the console
            while ((line = bufferReader.readLine()) != null)   {
              System.out.println(line);
            }
            //Close the buffer reader
            bufferReader.close();
        }catch(Exception e){
            System.out.println("Error while reading file line by line:" +
e.getMessage());
        }


    }
  }
```

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ReadFileChangeTypecontributionFile.java

```
//File Name : ReadFileChangeTypeContributionFile.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.*;


 public class ReadFileChangeTypeContributionFile
 {
    public static void ChangeContFileView()
    {
       //System.out.println("Reading File from Java code");
       //Name of the file
       String fileName="ChangeTypeContributionFile.txt";
       try{

          //Create object of FileReader
          FileReader inputFile = new FileReader(fileName);

          //Instantiate the BufferedReader Class
          BufferedReader bufferReader = new BufferedReader(inputFile);

          //Variable to hold the one line data
          String line;
```

```
            // Read file line by line and print on the console
            while ((line = bufferReader.readLine()) != null)   {
              System.out.println(line);
            }
            //Close the buffer reader
            bufferReader.close();
        }catch(Exception e){
            System.out.println("Error while reading file line by line:" +
e.getMessage());
        }


    }
  }
```

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ReadFileMonthCont.java

```
//File Name : ReadFileMonthCont.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.*;

 public class ReadFileMonthCont
 {
    public static void MonthlyContributionFileView()
    {
       //System.out.println("Reading File from Java code");
       //Name of the file
       String fileName="MonthlyContributionFile.txt";
       try{

          //Create object of FileReader
          FileReader inputFile = new FileReader(fileName);

          //Instantiate the BufferedReader Class
          BufferedReader bufferReader = new BufferedReader(inputFile);

          //Variable to hold the one line data
          String line;

          // Read file line by line and print on the console
```

```
            while ((line = bufferReader.readLine()) != null)    {
              System.out.println(line);
            }
            //Close the buffer reader
            bufferReader.close();
        }catch(Exception e){
            System.out.println("Error while reading file line by line:" +
e.getMessage());
        }


    }
  }
```

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IterLine.java

```
//File Name : IterLine.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.*;
import java.util.Scanner;
import javax.swing.JOptionPane;
public class IterLine {
  public void Search() throws IOException {
    String[] list;
    String  search;
    int choice;
        //String  search;

    Scanner input = new Scanner(System.in);

    String word = ""; int val = 0;
    while(!word.matches("quit"))
    {
        //System.out.println("Which List Do you Wnat to Search in ?\n1:
myRecordFile\n2: MonthlyContributionFile\n3: ChangeTypeContributionFile");

        String MyChoice =  JOptionPane.showInputDialog("Which File Do you
Want to Search in ?\n1: myRecordFile\n2: MonthlyContributionFile\n3:
ChangeTypeContributionFile");
```

```
choice = Integer.parseInt(MyChoice);

switch(choice){

    case 1:

word =  JOptionPane.showInputDialog("Enter Your AccountNumber: ");

Scanner file = new Scanner(new File("myRecordFile.txt"));

while(file.hasNextLine())
{
    String line = file.nextLine();
    if(line.indexOf(word) != -1)
    {

        JOptionPane.showMessageDialog(null,"AccountNumber EXISTS.");
        ReadFile ReadFileObject = new ReadFile();
                    ReadFileObject.myRecordFileView();
        val = 1;
        break;
    }
    else
    {
        val = 0;
        continue;
    }
}
if(val == 0)
{
```

```
            JOptionPane.showMessageDialog(null,"AccountNumber does NOT
exist");
        }


        //JOptionPane.showMessageDialog(null,"Enter \ncontinue \nOR \nquit");


            word =  JOptionPane.showInputDialog("Enter quit to QUIT \nEnter
continue to CONTINUE");
                 break;


                case 2:
                word =  JOptionPane.showInputDialog("Enter Your
AccountNumber:");


        Scanner file2 = new Scanner(new File("MonthlyContributionFile.txt"));


        while(file2.hasNextLine())
        {
            String line = file2.nextLine();
            if(line.indexOf(word) != -1)
            {


                JOptionPane.showMessageDialog(null,"AccountNumber EXISTS.");
                ReadFileMonthCont monthcontViewObject= new
ReadFileMonthCont();

monthcontViewObject.MonthlyContributionFileView();
                val = 1;
                break;
            }
            else
            {
                val = 0;
                continue;
```

```
            }
        }
        if(val == 0)
        {

            JOptionPane.showMessageDialog(null,"AccountNumber does NOT
exist");
        }

        //JOptionPane.showMessageDialog(null,"Enter \ncontinue \nOR \nquit");

            word =  JOptionPane.showInputDialog("Enter quit to QUIT \nEnter
continue to CONTINUE");
                 break;



            case 3:
                word =  JOptionPane.showInputDialog("Enter Your
AccountNumber:");

        Scanner file3 = new Scanner(new
File("ChangeTypeContributionFile.txt"));

        while(file3.hasNextLine())
        {
            String line = file3.nextLine();
            if(line.indexOf(word) != -1)
            {

                JOptionPane.showMessageDialog(null,"AccountNumber EXISTS.");

                ReadFileChangeTypeContributionFile ChangeContFileViewObject =
new ReadFileChangeTypeContributionFile();
                            ChangeContFileViewObject.ChangeContFileView();
```

```
                val = 1;
                break;
            }
            else
            {
                val = 0;
                continue;
            }
        }
        if(val == 0)
        {

            JOptionPane.showMessageDialog(null,"AccountNumber does NOT
exist");
        }
        //JOptionPane.showMessageDialog(null,"Enter \ncontinue \nOR \nquit");

            word =  JOptionPane.showInputDialog("Enter quit to QUIT \nEnter
continue to CONTINUE");
                 break;
            default:
                JOptionPane.showMessageDialog(null,"Ooops!!! ... Wrong
Choice.");
                word =  JOptionPane.showInputDialog("Enter quit to QUIT
\nEnter continue to CONTINUE");
                 break;
        }
}
}
}
```

JamiiIterateMain.java

```
//File Name : JamiiIterateMain.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.FileNotFoundException;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class JamiiIterateMain {

    public void iterateMain() throws FileNotFoundException{

        int choice;

        Scanner inputChoice  = new Scanner(System.in);

        String MyChoice =  JOptionPane.showInputDialog("Enter Your Choice:"
                + " \n1: To Iterate Thru' Existing Members' list\n"
                + "2: To Iterate Thru' Monthly Contributions List\n"
                + "3: To iterate Thru' list of Contribution of members who
have changed membership");

        choice = Integer.parseInt(MyChoice);

        switch(choice){
```

```
            case 1:

                JamiiIterateInsert InsertObject = new JamiiIterateInsert();
                InsertObject.insert();
                break;

            case 2:

                JamiiIterateCont ContObject = new JamiiIterateCont();
                ContObject.cont();
                break;
            case 3:

                JamiiIterateContChange ChangeMembObject = new
JamiiIterateContChange();
                ChangeMembObject.contChange();
                break;

            default:
                JOptionPane.showMessageDialog(null,"Ooops!!! ... Wrong
Choice.");
                break;
        }

    }


}
```

JamiiIterateInsert.java

```
//File Name : JamiiIterateInsert.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.File;
import java.io.FileNotFoundException;
import java.util.NoSuchElementException;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class JamiiIterateInsert{
    Scanner input = new Scanner(System.in);
public void insert() throws FileNotFoundException
{
    String fileName = "myRecordFile.txt";

    String myChoice =  JOptionPane.showInputDialog("Enter Account Number to
delete:");
         String findNumber = myChoice;
    File file = new File(fileName);
    Scanner dataText = null;
    String result="";

    try
    {
        dataText = new Scanner(file);
```

```
        while (dataText.hasNext())
        {
            String line = dataText.nextLine();
            if (line.contains(findNumber))
            {
                //System.out.println(line);
                //line.trim();
                //System.out.println(items[1]);
                System.out.println(line);

                result ="done";
            }
        }
     }
   catch (NumberFormatException nfe)
     {
        result = "error";
     }
     catch (NoSuchElementException nsf)
     {
        result = "error";
     }
     catch (FileNotFoundException fnf)
     {
        result = "error";
     }
   // return result;
}
}
```

JamiiIterateCont.java

```
//File Name : JamiiIterateCont.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.File;
import java.io.FileNotFoundException;
import java.util.NoSuchElementException;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class JamiiIterateCont{
    Scanner input = new Scanner(System.in);
public void cont() throws FileNotFoundException
{
    String fileName = "MonthlyContributionFile.txt";

    String myChoice =  JOptionPane.showInputDialog("Enter Account Number to
delete:");
         String findNumber = myChoice;
    File file = new File(fileName);
    Scanner dataText = null;
    String result="";

    try
    {
        dataText = new Scanner(file);
```

```
        while (dataText.hasNext())
        {
            String line = dataText.nextLine();
            if (line.contains(findNumber))
            {
                //System.out.println(line);
                //line.trim();
                //System.out.println(items[1]);
                System.out.println(line);

                result ="done";
            }
        }
     }
   catch (NumberFormatException nfe)
     {
        result = "error";
     }
     catch (NoSuchElementException nsf)
     {
        result = "error";
     }
     catch (FileNotFoundException fnf)
     {
        result = "error";
     }
   // return result;
}
}
```

JamiiIterateContChange.java

```
//File Name : JamiiIterateContChange.java
//Its Executed in the main class (JamiiMain.java)
//Original Code by: Kithinji A. Muriungi
//Reg. No. EC/09/14
//kamkith@gmail.com
//@kithinji_muriungi
//JAMII CHAMA SYSTEM

import java.io.File;
import java.io.FileNotFoundException;
import java.util.NoSuchElementException;
import java.util.Scanner;
import javax.swing.JOptionPane;

public class JamiiIterateContChange{
    Scanner input = new Scanner(System.in);
public void contChange() throws FileNotFoundException
{
    String fileName = "ChangeTypeContributionFile.txt";

    String myChoice =  JOptionPane.showInputDialog("Enter Account Number to
delete:");
         String findNumber = myChoice;
    File file = new File(fileName);
    Scanner dataText = null;
    String result="";

    try
    {
        dataText = new Scanner(file);
```

```
        while (dataText.hasNext())
        {
            String line = dataText.nextLine();
            if (line.contains(findNumber))
            {
                //System.out.println(line);
                //line.trim();
                //System.out.println(items[1]);
                System.out.println(line);

                result ="done";
            }
        }
     }
   catch (NumberFormatException nfe)
     {
        result = "error";
     }
     catch (NoSuchElementException nsf)
     {
        result = "error";
     }
     catch (FileNotFoundException fnf)
     {
        result = "error";
     }
   // return result;
}
}
```