Application code:

*/\*\**

*\* This program allows a user to input 10 clients and outputs the*

*\* information into a sequential file. Then the file will be read and the*

*\* information will be displayed to the screen in the following format:*

*\* ID#; First Name; Last Name; Account Balance.*

*\*/*

import java.io.\*;

import java.util.\*;

import java.util.Scanner;

public class SequentialFileOutput{

static final String *FILENAME* = "file.txt";

public static void main(String args[]){

*displayMenu*();

}

public static void addContent(String[] array){

Scanner scanner = new Scanner(System.*in*);

boolean append = false;

boolean token = true;

System.*out*.println("Write content in append mode? (Y/N)");

String input = scanner.nextLine().toLowerCase();

while ( token ){

if(input.equals("y")){

append = true;

token = false;

} else if (input.equals("n")){

append = false;

token = false;

} else {

System.*out*.println("Please enter Y or N ... ");

input = scanner.nextLine().toLowerCase();

System.*out*.println("2 " + input);

}

}

*writeToFile*(array, append);

}

public static void readFile(){

System.*out*.println("\n\n\t--== Read File ==--");

System.*out*.println("Attempting to read file ... ");

List<String> records = new ArrayList<>();

FileReader fReader = null;

BufferedReader fBuffer = null;

try {

fReader = new FileReader(*FILENAME*);

fBuffer = new BufferedReader(fReader);

String line;

while ((line = fBuffer.readLine()) != null){

records.add(line);

}

System.*out*.println("File read. \nProcessed " + records.size() +

" lines.");

*printRecords*(records);

} catch (Exception e) {

System.*out*.println("Unable to read file : "

+ e.getMessage());

} finally {

try {

if (fBuffer != null){

fBuffer.close();

}

if (fReader != null){

fReader.close();

}

} catch (Exception e) {

System.*out*.println("Unable to close reader : "

+ e.getMessage());

}

}

*displayMenu*();

}

public static void printRecords(List<String> records){

String delimiter = ";";

System.*out*.println("\n\n\t\_\_Contents of " + *FILENAME* + "\_\_");

System.*out*.println("Attempting to write to file ... ");

for (String record : records){

String[] splitRecord = record.split(delimiter);

System.*out*.print("ID#: " + splitRecord[0] + " |\_");

System.*out*.print("| First Name: " + splitRecord[1]+ " |\_");

System.*out*.print("| Last Name: " + splitRecord[2]+ " |\_");

System.*out*.print("| Account Balance: " + splitRecord[3] + "\n");

}

*displayMenu*();

}

public static void writeToFile(String[] contentArray, boolean append){

File file = new File(*FILENAME*);

FileWriter fWriter = null;

BufferedWriter fBuffer = null;

System.*out*.println("\n\n\t--== Write to File ==--");

System.*out*.println("Attempting to write to file ... ");

try {

if (!file.exists()){

file.createNewFile();

}

fWriter = new FileWriter(file, append);

fBuffer = new BufferedWriter(fWriter);

for (int i = 0; i < 10; i++){

fBuffer.write(contentArray[i]);

System.*out*.println(contentArray[i]);

}

System.*out*.println("File write complete.");

} catch (Exception e) {

System.*out*.println("Unable to write to file : " + e.getMessage());

} finally {

try {

if (fBuffer != null){

fBuffer.close();

}

if (fWriter != null){

fWriter.close();

}

} catch(Exception e) {

System.*out*.println("Unable to close writer : "

+ e.getMessage());

}

}

*displayMenu*();

}

public static void displayMenu()

{

System.*out*.println("\n\n\t--== Main Menu ==--");

System.*out*.println("1. Read File");

System.*out*.println("2. Write to File");

System.*out*.println("3. Quit");

Scanner reader = new Scanner(System.*in*);

int menuSelection = reader.nextInt();

String contactArray[];

switch(menuSelection)

{

case 1:

*readFile*();

break;

case 2:

contactArray = *fillArray*();

*addContent*(contactArray);

break;

case 3:

*exit*();

break;

}

}

public static String[] fillArray(){

Scanner reader = new Scanner(System.*in*);

String contactArray[] = new String[10];

System.*out*.println("Please enter contact information for 10 people.");

String contact = "";

for(int i = 0; i < 10; i++){

System.*out*.println("\nContact ID: ");

contact += reader.nextLine() + ";";

System.*out*.println("\nFirst Name: ");

contact += reader.nextLine() + ";";

System.*out*.println("\nLast Name: ");

contact += reader.nextLine() + ";";

System.*out*.println("\nAccount Balance: ");

contact += reader.nextLine() + System.*lineSeparator*();

contactArray[i] = contact;

contact = "";

}

return contactArray;

}

public static void exit()

{

System.*out*.println("\_\_Exiting Program\_\_");

System.*exit*(0);

}

}

Application running:







