

Forum:[Hack Forums](#)

Thread: [Assistance needed in java for assignment](#)

Dimlead - December 2, 2017, 3:33 pm

I need help for this assignment I'm doing for school since I can't figure out how to do it. Also I tried to fix the problem over the internet by look up for answers but I can't find any answer for my specific problem since I have some specific guideline that I have to follow for this assignment, so I thought the best idea was to post it on a forum since I'm going to get answered specifically for my problem.

These are the following guidelines that I have to follow:

You are required to write a program (java class) to create a system for a bank ATM machine.

Hard code the users for the system. Each user will have a name, password, and balance and overdraft facility. (These must all be stored in arrays.)

The user will be asked to log in to the ATM using a method which should return the position (index) of the user in the array.

Once they log in they will have a Display Menu (method) with options to View Bank Statement (method), Change Password (method), Deposit Money (method), Withdraw Money (method) and Exit (method). The menu should loop until the user chooses to Exit. (The new password cannot be a password that is already in use.)

The arrays must be updated when the user deposits or withdraws money or changes a password.

The user can only withdraw more money than they have in their account if they have an overdraft facility.

There is no limit on the overdraft.

All inputs must be validated for error checking using a method.

```
Code import java.util.Scanner;//java library class
public class Assigment2 { //start class
```

```
    //global variable
```

```
    static int creditsbalanceArray []={156,256,504};// user currency balance
```

```
    static String nameArray []={"Molly","Connor","Shane"};// user name
```

```
    static int passcodeArray []= {6543,7654,8765};// user passcode
```

```
    static int overdraftArray []={1,2,3};// user overdraft
```

```
    static int passcode;// user passcode
```

```
    static Scanner input = new Scanner(System.in);//static Scanner input
```

```
    static int index;// user index
```

```
    public static void main(String[] args) { //start main method
```

```

        showAllUsers();//show All user variable
        loginBankMachine();//login Bank Machine variable
        showAlternativeOptions();//show Alternative Options variable

    }//end main method

//METHODOLOGY||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
public static void showAllUsers(){//start showAllUsers method
    System.out.println(" All Users");// All Users
    System.out.println("INDEX\tNAME\t$ BAL\tPASSCODE");//user options
    for(int i=0;i<creditsbalanceArray.length;i++){//intializing credit balance Array

        System.out.println(i+"\t"+nameArray[i)+"\t"+creditsbalanceArray[i)+"\t"+passcodeArray[i]);//dis
playing arrays
    }// end for loop
}//end showAllUsers method

public static void loginBankMachine(){//start login method

    int[] accountPasscode;
    int[] d;
    int found = 0;
    System.out.println("Welcome " + d+"\nPlease Enter Passcode : ");
    int passcode = input.nextInt();

    //find the passcode in the array
    for (int i = 0;i <accountPasscode.length;i++){
        if (accountPasscode[i] == passcode ){
            found = 1;
            index = i;
            break;
        }//end if
    }//end for

    if (found == 0 ){
        System.out.println("Not found Try again");
        loginBankMachine();
    }//end if
}//end loginATM

public static void showAlternativeOptions(){//start ShowAlternativeOption Method
    System.out.println(" Please select one of the following options available");
    //give the user the menu
    System.out.print("\n1.View Bank Machine Produced Statment \n2.Deposit
credits\n3.Withdraw credits\n4.Change Passcode\n5.Exit");//user options
    String option =input.next();//string option

    switch(option){//start switch method
        case "1":
            BankMachineProducedStatement();break;//BankMachineProducedStatment option
        case "2":
            System.out.println(" Deposit Credits");break;//Deposit Credits option
        case "3":

```

```

        System.out.println(" Withdraw Credits");break;//Withdraw Credits option
    case "4":
        System.out.println(" Change Passcode");break;//Change Passcode option
    case "5":
        System.out.println(" Thank you for using our bank machine");break;//Exit option
    }//end switch
} // end ShowaAlternativeOption method

    public static void BankMachineProducedStatement(){//start BankMachineProducedStatement
Method
        System.out.println(" Bank Machine Produced Statment");//Bank Machine Produced Statment
Description

        System.out.println(index+"\t"+nameArray[index]+" \t"+creditsbalanceArray[index]+" \t"+passcodeAr
ray[index]);//initializing arrays
    }//end BankMachineProducedStatement method

    public static void DepositCredits(){//start DepositCredits Method
        System.out.println(" Credits Total");//Credits Total Description
        System.out.println(" Credit ");
        System.out.println(index+"\t"+creditsbalanceArray[index]);//initializing arrays
    }//end DepositCredits method

    public static void WithdrawCredits(){//start WithdrawCredits Method
        System.out.println("Credits Withdrawn");//Credit Withdrawm Description
        System.out.println(index+"\t"+creditsbalanceArray[index]);//index creditsbalanceArray
    }//end WithdrawCredits method

    public static void changePasscode(){

        System.out.println("\nEnter new passcode");
        String stringpasscode=input.next();
        int passcodeArray=validateInput(passcode);
        for(int i=0;i<passcodeArray.length;i++){
            if (accountPasscode[i] == passcode){
                System.out.println("passcode taken");
                changePasscode();
            }
        }//end if
    }//end for
} //end changePasscode Method

    public static void Exit(){
        System.out.println("Thank you for using our bank machine");
        System.exit(0);
    } //end Exit method
}
} //end class

```

This is the code that I have so far, the variables I used are different since I can't use the same variables as my class mates, so they're a bit odd. I still have to do the withdraw method, the passcode change method, the login method, the deposit method, loop, and errorcheck and I think that's it, if there's anything else that I missed that is in the guidelines then please correct me in the

thread and give me a solution for it please. I tried solving the methods myself by putting in solutions from the internet but they don't match the guidelines and variables that I have, which causes problems that I can't fix, hopefully someone is able to fully help me so I can finish this frustrating assignment that has only cost me time and trouble.

matt - December 2, 2017, 7:19 pm

(Dec 2, 2017 04:33 PM)Dimlead Wrote: [\[CITE\]](#) -snip-
Are you willing to pay somebody to do the assignment for you?

Dimlead - December 3, 2017, 1:43 am

(Dec 2, 2017 08:19 PM)Midnight Blue™ Wrote: [\[CITE\]](#) Are you willing to pay somebody to do the assignment for you?

Lool if I were to pay someone I would have just paid one of my nerdy class mates to do it for me, and wouldn't go through the trouble of putting up a thread.

Ozgin - December 3, 2017, 11:42 pm

It is pretty much done, you would just need to do the errorCheck method

```
Code import java.util.Scanner;//java library class
```

```
import java.util.List;
```

```
import java.util.Arrays;
```

```
public class Assignment2 { //start class
```

```
    //global variable
```

```
    private static int creditsbalanceArray []={156,256,504}; // user currency balance
```

```
    private static String nameArray []={"Molly","Connor","Shane"}; // user name
```

```
    private static String passcodeArray []= {"6543","7654","8765"}; // user passcode
```

```
    private static int overdraftArray []={1,2,3}; // user overdraft
```

```
    private static int passcode; // user passcode
```

```
    private static Scanner input = new Scanner(System.in); //static Scanner input
```

```
    private static int index; // user index
```

```
    public static void main(String[] args) { //start main method
```

```
        showAllUsers(); //show All user variable
```

```
        int userIndex = loginBankMachine(); //login Bank Machine variable
```

```
        while(userIndex == -1){
```

```
            System.out.println("Something went wrong let's try that again");
```

```
            userIndex = loginBankMachine();
```

```
        }
```

```
        showMenu(); //show Alternative Options variable
```

```
    } //end main method
```

```
    //METHODOLOGY||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
    public static void showAllUsers() { //start showAllUsers method
```

```
        System.out.println(" All Users"); // All Users
```

```
        System.out.println("INDEX\tNAME\t$ BAL\tPASSCODE"); //user options
```

```
        for(int i=0;i<creditsbalanceArray.length;i++){ //intializing credit balance Array
```

```
            System.out.println(i+"\t"+nameArray[i]+" \t"+creditsbalanceArray[i]+" \t"+passcodeArray[i]); //displaying arrays
```

```
        } // end for loop
```

```

} //end showAllUsers method

private static int loginBankMachine() { //start login method

    System.out.println("Welcome " + "\nPlease Enter Username : ");
    String uname = input.next();

    System.out.println("password: ");
    String pass = input.next();

    List names = Arrays.asList(nameArray);
    List passwords = Arrays.asList(passcodeArray);

    System.out.println(names.indexOf(uname));
    System.out.println(names.indexOf(pass));

    if (names.contains(uname) && passwords.contains(pass)) {
        if (names.indexOf(uname) == passwords.indexOf(pass)) {
            return names.indexOf(uname);
        }
    }

    return -1;
} //end loginATM

public static void showMenu() { //start ShowAlternativeOption Method
    System.out.println(" Please select one of the following options available");
    //give the user the menu
    System.out.print("\n1.View Bank Machine Produced Statment \n2.Deposit
credits\n3.Withdraw credits\n4.Change Passcode\n5.Exit\n:"); //user options
    String option = input.next(); //string option

    switch (option) { //start switch method
        case "1":
            bankMachineProducedStatement();
            break; //BankMachineProducedStatment option
        case "2":
            depositMoney();
            break; //Deposit Credits option
        case "3":
            withdrawMoney();
            break; //Withdraw Credits option
        case "4":
            changePasscode();
            break; //Change Passcode option
        case "5":
            exit();
            break; //Exit option
        default:
            System.out.println("Oops");
            break;
    } //end switch
} // end ShowaAlternativeOption method

```

```

    public static void bankMachineProducedStatement(){//start BankMachineProducedStatement
Method
    System.out.println(" Bank Machine Produced Statment");//Bank Machine Produced Statment
Description
    System.out.println("$" +creditsbalanceArray[index] +".00");
    showMenu();
} //end BankMachineProducedStatement method

public static void depositMoney(){//start DepositCredits Method
    System.out.println(" Total balance");//Credits Total Description
    System.out.println("$" +creditsbalanceArray[index] +".00");
    System.out.println("How much will you be depositing?");
    int amount = input.nextInt();

    creditsbalanceArray[index] += amount;
    System.out.println(" New balance");//Credits Total Description
    System.out.println("$" +creditsbalanceArray[index] +".00");
    showMenu();
} //end DepositCredits method

public static void withdrawMoney(){//start WithdrawCredits Method
    System.out.println(" Total balance");//Credits Total Description
    System.out.println("$" +creditsbalanceArray[index] +".00");
    System.out.println("How much will you be Withdrawing?");
    int amount = input.nextInt();

    while(amount >= creditsbalanceArray[index]) {
        System.out.println("Invalid amount, try again");
        amount = input.nextInt();
    }

    creditsbalanceArray[index] -= amount;
    System.out.println(" New balance");//Credits Total Description
    System.out.println("$" +creditsbalanceArray[index] +".00");
    showMenu();
} //end WithdrawCredits method

public static void changePasscode(){

System.out.println("\nEnter new passcode");
    String newPass = input.next();
    List passwords = Arrays.asList(passcodeArray);

    while(passwords.contains(newPass)){
        System.out.println("passcode taken, try again:"); //totally not vulnerable password checking
        newPass = input.next();
    }

    passcodeArray[index] = newPass;
    showMenu();
} //end changePasscode Method

```

```
public static boolean errorCheck(String input) {  
    return true;  
}  
  
public static void exit(){  
    System.out.println("Thank you for using our bank machine");  
    System.exit(0);  
} //end Exit method  
} //end class
```