

Here are screenshot of my code

```
C:\Users\FRED\Desktop\FINAL\Bank_account.java - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test_account.java Account.java - F Account.java - C Account.java - C Account.java - C Account.java - C TestAccount.java TestAccount.java Detail.java Bank_account.java TestAccount.java TestAccount.java Withdraw.java
2
3 import java.util.Date;
4
5 class Bank_account{
6     String name,acc_type, branch;
7     int Acc_num;
8     double Acc_Balance, balance=0.0;
9     double bookbalance=0;
10    java.util.Date date;
11    String reg_num="";
12
13    Bank_account(){
14
15    }
16    Bank_account(String n,int acc_num,double b,String a_t){
17        name=n;
18        Acc_num=acc_num;
19        Acc_Balance=b;
20        acc_type=a_t;
21    }
22 } // end class
23
24 class create_account extends Bank_account{
25     create_account(String n, int acc_num,double b, String a_t, String a){ // pass name and account type
26         name=n;
27         Acc_num=acc_num;
28         Acc_Balance=b;
29         acc_type=a_t;
30         branch=a;
31         date=new java.util.Date();
32     }
33     create_account(){
34         super();//bed-com-06-18
35     }
36
Line 2, Column 1 Spaces: 4 Java 1:33 PM 11/8/2020
Search the web and Windows
```

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48
49 class student extends create_account{
50     student(String r){
51         reg_num=r;
52     }
53 void sudent_detail(){
54     System.out.print(" "+reg_num);
55 }
56
57
58
59
60
61
62 void display_details(){
63     System.out.print(name);
64     System.out.print(" "+Acc_num);
65     System.out.print(" "+acc_type);
66     System.out.print(" MmK"+(Acc_Balance));
67     System.out.print(" MmK"+(bookbalance));
68     System.out.print(" "+branch);
69     System.out.print(" "+date);
70 }
71
72 void deposit(int acc_num,int money){
73     Acc_Balance+=money;
74 }
75
76 double withdraw(double withd){
77     Acc_Balance-Acc_Balance-withd;
78     return Acc_Balance;
79 }
80
81 } // end class
Line 81, Column 16 Spaces: 4 Java 1:35 PM 11/8/2020
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```
C:\Users\FRED\Desktop\FINAL\Test_bank_account.java - Sublime Text 2 (UNREGISTERED)
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Test_account.j Account.java Account.java Account.java Account.java Account.java TestAccount.j TestAccount.j Detail.java Bank_account Test_bank_acc TestAccount.j TestAccount.j Withdraw.java

1 //bed-com-06-18
2 //bank management system.
3 import java.util.Date;
4
5 public class Test_bank_account{
6
7     public static void main(String args[]){
8
9         Detail detail=new Detail();
10
11         String user_name=null,type;
12         type = null;
13         int tmp=0;
14         double withdr=0,current_balance=0;
15         double bookbalance=200;
16         String branch="";
17         int balance=0;
18         int generated_number=0, option=0;
19         String reg_num="";
20         int [] list={generated_number};
21         Bank_account[] account=new Bank_account[list.length]; //CREATING ARRAY THAT WILL STORE ANK ACCOUNTS
22         create_account user = new create_account("", 0, 0, "", ""); // initilaize -- name,acc_number,Balance,Type
23
24         //CRATING SCANNER OBJECTS
25         java.util.Scanner Charle = new java.util.Scanner(System.in);
26
27         java.util.Scanner Chidule = new java.util.Scanner(System.in);
28
29         java.util.Date date=new java.util.Date();
30         int userChoice;
31         boolean quit = false;
32         System.out.println("WELCOME TO NATIONAL BANK OF MALAWI");
33
34         do {
```

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Test_account.j Account.java Account.java Account.java Account.java Account.java TestAccount.j TestAccount.j Detail.java Bank_account Test_bank_acc TestAccount.j TestAccount.j Withdraw.java

35
36         System.out.println("MAIN MENU");
37         System.out.println("Select an operation below");
38         System.out.println("1. Create Bank Account");
39         System.out.println("2. Deposit money into account");
40         System.out.println("3. Withdraw money from account");
41         System.out.println("4. Check account balance");
42         System.out.println("5. Display Account Details");
43         System.out.println("6. List all accounts and their balances");
44         System.out.println("0. Exit: \n");
45         System.out.print("Enter Your Choice : ");
46         userChoice = Charle.nextInt();
47         switch (userChoice) {
48
49         case 1:
50
51         do{
52
53             System.out.println("1. Student");
54             System.out.println("2. Executive");
55             option=Charle.nextInt();
56             if(option==1){
57
58                 System.out.println("Creating a new student bank account ");
59                 System.out.println("\n\t NB use block/capital letters\n\t");
60                 System.out.print("Enter your Name : ");
61                 user_name=Chidule.nextLine();
62                 System.out.print("Enter Account Type : ");
63                 type=Charle.next();
64                 System.out.print("Enter the branch : ");
65                 branch=Chidule.nextLine();
66                 System.out.print("Enter your registration number : ");
67                 reg_num=Chidule.nextLine();
68
```

```
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Test_account.j... Account.java... Account.java... Account.java... Account.java... Account.java... TestAccount.j... TestAccount.j... Detail.java... Bank_account... Test_bank_acc... TestAccount.j... TestAccount.j... Withdraw.java...

69
70 // to generate Random Account Number
71 for(int i=0; i<account.length;i++){
72     generated_number = (int)((Math.random() * 90000)+10000);
73
74     generated_number++;
75 }
76 user.insert(user_name, generated number, type, branch, bookbalance); // inserted
77 System.out.println("Your account has sucessfully been created ");
78 bookbalance=200;
79 System.out.println("\n\tYour Account Details\n\t please!! Do not forget your   Account Number\n");
80 System.out.println("   ACCOUNT NAME      ACCOUNT NUMBER      TYPE      BALANCE      BOOK BALANCE");
81 System.out.println("-----");
82 user.display_details();
83 System.out.print("      "+reg_num);
84 }
85 else{
86
87     System.out.println("Creating a new executive bank account");
88     System.out.println("\n\t NB use block/capital letters\n\t");
89     System.out.print("Enter your Name : ");
90     user_name=Chidule.nextLine();
91     System.out.print("Enter Account Type : ");
92     type=Charles.next();
93     System.out.print("Enter the branch : ");
94     branch=Chidule.nextLine();
95     // to generate Random Account Number
96     int count=0;
97     for(int i=0; i<account.length;i++){
98         generated_number = (int)((Math.random() * 90000)+10000);
99         count++;
100
101     }
102
Line 102, Column 25
Search the web and Windows
Spaces: 2
Java
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109     }
110     System.out.println("\n\t Caution!\n\t Do not forget your   Account Number\n");
111 }
112 while(quit);
113 break;
114
115
116 case 2: // deposite
117     System.out.println("Depositing money into account");
118     System.out.print("Enter your account Number : ");
119     tmp=Charles.nextInt();
120     if(tmp==user.Acc_num){
121         System.out.print("Enter Amount Of Money to deposit : ");
122         balance=Charles.nextInt();
123         user.Acc_Balance=balance;
124         System.out.println("MMK"+balance+" is successfully Deposited.");
125     }
126     else
127         System.out.println("Wrong bank Accooout Number.");
128     break;
129
130 case 3: // withdraw money
131     System.out.println("Withdrawing money from account ");
132     System.out.print("Enter your account Number : ");
133     tmp=Charles.nextInt();
134
135     if(tmp==generated_number){
136         if(option==1)
137             if(user.Acc_Balance==0|| user.Acc_Balance==200)
138                 System.out.print("Sorry! You cannot withdraw book balance");
139
140         else{
141             System.out.print("Enter Amount Of Money to withdraw : ");
142             withd=Charles.nextDouble();

```

```
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183     }
184     break;
185     case 6: // list all accounts and thier balance
186         System.out.println("\n");
187         System.out.println("Below are bank accounts and their balances");
188         System.out.println("ACCOUNT NAME    ACCOUNT NUMBER    TYPE    BALANCE    BOOK BALANCE");
189         System.out.println("-----");
190         for (int i=0; i<list.length; i++){
191             detail.Search(list, generated_number);
192             user.display_details();
193         }
194         if (tmp==generated_number){
195             System.out.println("\n");
196             user.display_details();
197         }
198     }
199     break;
200
201     case 0:
202         quit = true;
203         break;
204     default:
205         System.out.println("Wrong Choice.");
206         break;
207     }
208     System.out.println("\n");
209 } while (!quit);
210 System.out.println("Thank you for using our service!");
211 System.out.println("bed-com-06-18@cc.ac.mw");
212
213 } // end main function
214 } // end mian class
215
216 } // end mian class

Line 216, Column 21
Search the web and Windows
Spaces: 2
Java
1:38 PM
11/8/2020
```

```
Command Prompt - java Test_bank_account
C:\Users\FRED\Desktop\FINAL>java Test_bank_account
WELCOME TO NATIONAL BANK OF MALAWI
MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 1
1. Student
2. Executive
1
Creating a new student bank account

NB use block/capital letters

Enter your Name : CHARLES CHIDULE
Enter Account Type : STUDENT
Enter the branch : BLANTYRE
Enter your registration number : BED-COM-06-18
Your account has sucessfully been created

Your Account Details
please!! Do not forget your Account Number

ACCOUNT NAME    ACCOUNT NUMBER    TYPE    BALANCE    BOOK BALANCE    BRANCH    DATE CREATED    REG.NUMBER
-----
CHARLES CHIDULE    80381    STUDENT    MWK0.0    MWK200.0    BLANTYRE    Sun Nov 08 13:32:27 IST 2020    BED-COM-06-18
Caution!
Do not forget your Account Number

MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 2
Depositing money into account
Enter your account Number : 80381
Enter Amount Of Money to deposit : 50000
MWK50000 is successfully Deposited.
```

```
Command Prompt - java Test_bank_account
Your Current Balance : 27000.0

MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 4
Checking bank account balance
Enter your Account Number : 80281
Wrong Account Number.

MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 4
Checking bank account balance
Enter your Account Number : 80381
Your Current Balance : Mkw27000.0

MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 5
Viewing bank account details
Enter your Account Number :80381

```

ACCOUNT NAME	ACCOUNT NUMBER	TYPE	BALANCE	BOOK BALANCE	BRANCH	DATE CREATED
CHARLES CHIDULE	80381	STUDENT	Mkw27000.0	Mkw200.0	BLANTYRE	Sun Nov 08 13:32:27 IST 2020

```
Command Prompt - java Test_bank_account
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 0

Thank you for using our service!
bed.com-06-10@cc.ac.mw

C:\Users\FRED\Desktop\FINAL>java Test_bank_account
WELCOME TO NATIONAL BANK OF MALAWI
MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice : 1
1. Student
2. Executive
2
Creating a new executive bank account
NB use block/capital letters

Enter your Name : MR MULUMBE
Enter Account Type : EXECUTIVE
Enter the branch : ZOMBA
Your account has successfully been created

```

ACCOUNT NAME	ACCOUNT NUMBER	TYPE	BALANCE	BOOK BALANCE	BRANCH	DATE CREATED
MR MULUMBE	64879	EXECUTIVE	Mkw0.0	Mkw20000.0	ZOMBA	Sun Nov 08 13:42:05 IST 2020

```
Caution!
Do not forget your Account Number

MAIN MENU
Select an operation below
1. Create Bank Account
2. Deposit money into account
3. Withdraw money from account
4. Check account balance
5. Display Account Details
6. List all accounts and their balances
0. Exit:

Enter Your Choice :
```