import class poce port Por

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) Develop a jour program to create a class Bank that maintains two kinds of account for its customer one called of awing account and the other current account the object account of sound interest and withdrawal jacilities but no cheque book facility. Ihr current account provides cheque book jacility but no interest. Current account hobers should also maintain a minimum balance and if the balance Jails below this level, a ferrice charge is imposed.

· create a class Account that stores Lustomes name, the claves Cur-act and law-act to make them more especific to this orequirements. Include the necessary methods in order to achieve the zollowing tasks

a) Accept defocit from customer & update the balance.

b) display the balance c) Compute and deposit instruct

d) permit withdrawt & update the bolance of check the minimum balance, impose penalty in necessary & update the bolance.

```
import java. util. Scanner;
class Bank Account ?
                       austomer Name;
  protected String
   protected int account Number;
   protected double bolance;
 public Bank Account (String customer Name, int account Number, double
                this. customes Name = customes Name;
                 this occount Number: a count Number;
                  thir. balance : balance;
                roid displayAccount Details () &
              System out prindler ("customer name:" + customer Name);
             System. out. printle ("Account number." + account Number);
System. out. printle ("Type of Account! Savings Account!);
System. out. printle ("balance - " + balance);
  class Savings Account extends Bank Account &
          privale double interestRate;
    public SouingeAccount (String customer Name, int account Number, double interest Role) 3
                    super (curtomis Name, account Number, balance);
this. interestRate = interestRate;
                           deposit (double amount) p
          public noid
                      balance + = amount;
          public void withdraw (double amount)?
                        balance - - amount;
          public void compale Interest ()?
                      bolance += bolonie » interestrate (100;
         public roid conful displayAccount Delaik ()?
                   Super. dieplay Account Detaile ();
                 Systemout. printles ("Interest Rate" + interest Rate + "%");
               static noid main (Steing C) args) ?
class Main &
                   Beanner searce = new Scanner (System.in);
aving Account [] accounts new Sawings Account [2];
it choice;
       public
                  Sking customes Name;
```

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a count Number;
            balance;
              withdrawaltmount; 12 mas
              interatRate;
   for (not 10; icz; i++)?
        Bystem out print ("Enter customer name;
        austoma Name = Mannes. next ();
       System, out print (" Enter account Number");
        accountNumber : scanner nextInt();
       System. out. prind ("Enty the deposit amount: ").
                                                            30
       balance = scanny next Double ();
      accounts [i] = new Sawings Account (customer Name,
       accountNumber, balance, 2);
do s
                                                           0 19
  System. out. printle ("In - - HENU ....");
  System. out. printle [" 1. Deposit"}
                                                            Ev
  System. out. printle ("2. withdraw")
                                                            Eu
  System. out. print h l'3. comparte intert pol havings
                                                            Ei
                        Account ");
  System-out. printh ("h. Display account details");
System out private ("5. 2x17"
  Systemout. prist (" Enter your choice").
  choice = Scanner, next Ind ();
  Switch (choice) ?
    Care 1!
       System out print (" Entre the type of accent")
       Sking accountly pe = Scanner next ();
       System. out. print ("Enter the deposit amous!")
       defor throw = scann next Double ();
        account [o] : deposi + (deposi + Amount);
        break;
    Case 2:
        System, out printer (" Enter the type of accord");
        account Type - Manny next ();
        System, out, print ("Enter the withdeaval cured")
       witholawalfmont = carrer, next Double ()
       accounts[0], with draw (with draw Amount );
       break
  Case 3:
       occounts[0]. compute Interest ();
        break
```

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or countrol. display Account Detail (1;
           break ;
            system.out.printle("Exiting.");
break;
        Cars:
          Janua ... Please try again.");
       Julile (choice 1=5);
),.
       scanner. clos ();
      0 P:
      Enty customy name: Rachana
       Enter account Munker: 112
      Enty the deposit amount: 20000
       Enter customer noue: Prahruth:
       Enter account Number: 213
ys
       Endy the oleposit amound: 30000
       ... MENU - -
      01. Deposit
       3. compute interest to lewing Account occount bolateik.
       2. withdraw
       J. Exit
               your choic 1
              the deposit amunt: 30000
• ••}
        ... MENU ---
"}
        1. Depertit
                      interest for savings Account
        2. With draw
                      account defails
         3. Compute
         4. Disploy
      -MEUV. - Your choice 3
ز("!
        3. compute interest joi souring Account
4. Display account details
:1)5
               you choice = 4
        Customis rane: Rechara
        Account number: 112 rawing account
```

Enter customer name: rachana

Enter account Number: 123

Enter the deposit amount: 20000 Enter customer name: prakruthi

Enter account Number: 456

Enter the deposit amount: 10000

----MENU-----

- 1. Deposit
- 2. Withdraw
- 3. Compute interest for Savings Account
- 4. Display account details
- 5. Exit

Enter your choice: 2

Enter the type of account: 123 Enter the withdrawal amount: 500

----MENU----

- 1. Deposit
- 2. Withdraw
- Compute interest for Savings Account
- Display account details
- 5. Exit

Enter your choice: 4 Customer name: rachana Account number: 123

Type of Account: Savings account

balance - 19500.0 Interest Rate: 2.0%

----MENU-----

1. Deposit