Develop a Java program to weath class Barrie that maintains two kinds of account for its customous,

one called lawings and other current account . The lavings account provides compound interest and withdrawl facilities but no cheque book facility. Current account provides cheque book facility but no interest. Current account holders should also maintain min balance and if balance below they reporta charge in imposed.

Create a class Account that stones customer name, account number and type of account from this device classes con-acct and Sav-acct to make more specific to their organization Include necessary method to achieve:

- a) Accept deposit from customor and update the balance balance
- c) compute and deposit interest
- d) Pounit withdrawal and update balance

Check for minimum balance, impose penalty of nearsary and update balance.

Uars Account

c siduets) tourstate the blow adding Itring automeurant; Atring account type; double balance;

Public Account (Itring customername, int accounts Itring accountlype, double balance)

```
this customername = assert
     this. account number = account number;
     this accounttype = accounttype;
      this balance = balance;
     public void deposit (double amount)
      if (amount 70)
       balance = balance + amound
       lystem out printer ("New balance: "+ balance
    public void withdraw (double and)
       if (balance Y=and)
        balana = balana - arnt;
       Tystem. out . privath ("New balana: " + balana);
       else de l'approprie bere
    Tystem out println ("Insufficient balance);
    class Sav-Acct entends Amount
      Public Sav-Acet (Atring automeunance, accountnum
              double balance, string accounttype, double ra
       private double rate; 0000
   public void set Interest (double rate) super (customerna
    this rate = rate;
                                          accountnum
                                          balance, account
 public void compute soderes (int years)
  balance * = Math. pour (1+ rate) , years);
Tystem out println ("New balance" 1 hola
```

```
public void withdean (double amount)
        if (balance ) = ant)
       balance = balance -amt;
       system out pointln(" New balance: " + balance);
       else d
      system out pointly ("Insufficient balance");
      public Cum-Acct entends Account &
      private double minbalance;
      private double penant;
      public au - Acet (String automeunante, int acountr-
      umbell, double balance, string accounttype,
       double minbalance, double penand);
      super ( rustomeuname, account number, balance, accounttype)
      this minbalance = minbalance;
      this penattyant = penant;
    spublic void withdraw (double amound)
    if Ibalana &= amount)
       balance - amound;
       Aystem out println ("Amount withdrawon");
      uf (balance Lnumbalance) &
balana = penant;
     system out printer l'Penatty ant: "+ penant);
    Tystern out println ("Imufficient balance");
```

```
public class Bank
    public Matte void main (Horing augs ?)
    deanner 1c= new Seanner (Ayeter in).
     Tyrtem out pointly ("Enter name: ");
     Atring name = 10 nent Live ();
     System out pointen (" Enter acc numberi.");
      int accountnumber = 1c. anentgut();
     Tystem out priviter ("Enter balance: ");
       double balance = Sc. nent Double ();
     system out printer l'Enter account type:
      · Iting account type = 10 nent hine ();
   switch (accounttype);
   "ase "laving": Tystem out printles ("Enter rate:");
                     double rate = 10 nent Double );
                 Sav-Acct so=new Sav-Acct (Systemin)
                 3. deposit (1000);
                 s. display ();
                  s. withdraw (500);
                  S. compute Interest ();
                  break;
Case 'Current'': Tystem out printle ("Enter min balance
                                and penatty");
               double numbalance = 11 neut Double
```

```
public class Bank
    public Matte void main (Atomy augs ?)
     deanner 10= new Scanner (Ayeter in);
     Tyrtom out printly ("Enter name: ");
     Atring name = 10 nent Live ();
     System out pointln (" Enter acc numberi.");
       int accountnumber = 1c anentgut();
     Tystem out printer ("Enter balance: ");
       double balance = Sc. nent Double ();
      system out printer l'Enter account type:
      · Itring account type = 10 ment hime );
   switch (accounttype); 20 sometimes ) some
   case "laving": lystem out println ("Enter rate: ");
                     double rate = 10 nent Double );
               Sav-Acct 28=new Sav-Acct (Systemin
                 3. deposit (1000);
                 s. display ();
                 3. withdraw (500);
                 S. compute Interest ();
                  break;
Case 'Current': Tystem out printle ("Enter min balance
                                and penatty");
               double minbalance = 11 nous Double
```

double

```
public class Bank
      public static void main (string augs 3)
      Manney 1c= new Scanney (Myster in).
       Tyrtem out pointly l'Enter name: ");
       string name = 10 nent Live ();
       System out pointen (" Enter acc numberi.");
        int accountnumber = 1c. anentgut();
       Tystem out pointen ("Enter balance: ");
         double balance = Sc. nent Double ();
       system out priville l'Enteu account type: ")
        · Iting account type = 10 nent hine ();
    switch (accounttype);
    case "laving": lystem out printle ("Enter rate: ");
                      double rate = 10 nent Double);
           Sav-Acct 28=new Sav-Acct (Systemin)
                 3. deposit (1000);
                  s. display ();
                  s. withdraw (500);
                 S. compute Interest ();
                   break;
Case 'Convert': Mystem out printle ("Enter min balance
                                  and penatty");
                double minbalance = 11 neut Double
              double penant = 1c. nent Doublel)
```

am-Acct c= new am-Acct (System in); c. deposit (2000); c. display (); e. withanaw (500); break; defautt : lystem out pointer ("ground choice"); Output: Enter customer name: ADC Enter account number: 123 Enter intial value: 400 Enter account type 1. Deposit 2. Withdraw 3. Display 4. Compute and Deposit 5. Enit Enter your choice: 1 Enler amount to deposit : 1000 New balance: 1400.0 1. Deposit 2. Withdraw

3. Display

5. Enct

4. Compute and deposit

Enter your choice: 2

Erter amount: 500

New balance: 900,0

1. Deposit

a . withdraw

3. Display.

4. Compute and deposit

5. End

Enter your choice: 3

Current balance: 900.0