48) Develop a Java program le create a class. Bank that maintains, two trinds of account for its interior one called sovings account and the other current occount The savings alrowed provides compound interest and worthdrawn facilities, but no alleger book facility but no o interest. Correct account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed.

R (read a class Account that stores customer name, account number and type of allownt. From this derive the classes Cur-act and Sav-act La make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks:

o) Accept the deposit from customer and update the bolance

b) Display the bolonce o) computer and deposit interest

d) permit withdrawal and update the bolance

* check for the minimum balance, impose penalty of necessary are update the balance

Code : import java - util . Scann er : class account

String name) Int all no 1 String type; double balance:

account (string name, intace no, String type, double balance)

```
this name - hame;
this allno - allno
this type - type
 this balance , balance ;
and deposit (double amount)
   bolance += amound;
void with draw (druble amount)
    if CC balance - amound) >=0)
      bolance-=amount;
    els-e
    System. out. print a ("Insufficient balance, cout withdraw");
Void display ()
 System. out-printly ("name: "+ name + "accno: "+ accno + "type: "+type
   + "balance" ") + balance);
   class sav Acet entends account
      private state double rate = 5;
       Son Acit (String name, int acino, double balance).
```

```
Chame, alled soving balance );
void interest (
    boloned + - bolonce ( (vote ) (100;
     System. and printly ("balance - "+ balance);
    class coracet extends about
        private double minBal = 500.
        private double service Charges = 50;
        curacet (String name, int acces, double balance)
          Super (name, all no, "Lurrend", balane);
        7
           checkmin ()
      Verd
            (balance 2mm Bal)
           System. out . printle ("balance is less than min balance, serville
              Charges imposed: "+ service (harges);
              System. Ant. println ("balance 15." + balance );
        acloud Main
```

STAND S. NOW STANDER (Egyl LAN (1) > Significand printled "kide the name ") going name -, sinced () Sustem and printly ("Fister the type (current (sovings)") Shing types s next (); Sorten - ent print In (" Enter the account number . ") nd MINO-S. next Ind (); Sustem out printle ("Enter the instral balance: ") double bolance -s-next Duble (). mt chi double amount 1, amount 2; account acc = new account (name raceno, type, balance) Sav Alle 3a = new savAcct (name, accno, balance); cur Aut to = new cur Acct (noine, allno, balance); while (true) if (all-type-equals ("sonings")) System. out println ("In Menu In I deposit 2 with drow 3. Extended 4- display"); System out printle C'Enter the choice"); Ch = S. nest Int (); Switch (cn) case 1. System. out. print In ("Exter the amount."): amount = s. next Int(); Sa. doposit (amount 1);

break >

```
Case? Sychem and product (I do the amount ")
 sa withdraw ( amount ? )
   treak :
  lase 3 · saintired();
   break ;
  Cax 4. Sa. display ();
   break;
   Case 5 : System eart (0)
    default: System.out. println ("modical input");
    break;
   else
   System. out. printly (" \n Menn \n 1. deposit 2. withdraw 3. display")-
    System and printly (1 Exter the chile");
        Ch = s.next[nt();
      switch (in)
         Case 1: System. Ant . printly ("futer the amount:");
         Amount 1 = 5 neut Int ();
          Ca. deposit Camount 1),
           break ;
          case 2 = System. out. printle l'élater the amount :")
           amount 2= 5. northat ();
             ca withdraw (amount 2);
                ca . Check min ();
                 break;
```

Cash 3: Ca-dosplay (): buch; Cose 4: System. exit (0) default : System . ont. println ("invalid input") break Intent: Enter the name: Sohan Enter the type (current/ 5 aving s): corrent Enter the account number. 1217776 Enter the initial bolance: 10000 Menu 1. Apposit 2. with draw 3 display enter the charce: Name: sihan accus: 121 9776 Lype: corrent balance: 9800.0 Mend 1. deposit 7. withdraw 3. display enter the choice:

Enter the name: Schall Finder the type (correct I showing) carring s Fater the account number: 199922 Enter the initial balance: 7800 Meny 1 deposit 2 . northdraw 3. composte interest 4 display Later the choice Enter the amount: 6000 1. deposit 7. control raw 3. compute interest 4. display Enter the charce: balance: 1890 MONIA 1 - deposit 2. withdraw 3 - compute interest 4. display enter the choice: name: Sohan accno: 122222 type. savings balance: 1890.