Develop a jour program to create a class Bank that maintaines two kinds of accounts for its customers, one called savings account & other current account. The sovings account provides compound interest & withdrawal facilities but no cheque book facility. The crovient account provides cheque book facility but no interest current account holders should also maintain a minimum balance & if balance falls below this level, a service charge is imposed.

* Greate a class Account that stores wistemen mame, account number of type of account.

From this derive the classes are acct of souract to make them more specific to their requirem onts. Include the necessary methods in order to achieve the following tasks:

@ Accept deposite from cristomer & syrdate balance.

O Compute & deposite interest

a Permit withdrawl & repetite balance

Check for the minimum balance impose penalty if necessary of sypdate the balance.

> impôt java.vtil.*;

String customer name;

String type;

double balance;

account (String name, int san mumber, String type, double balance) ! Customer-mame = mame; acc-no = mumber; this. type = type; this balance = balance; void deposite (double amount) ?

balance += amount; void uithdrawldouble amount) {

if ((balance - amount) > 0) {

balance -= amount;

e System. out. println ("Insufficient balance"); void display ()? System out println ("Name: " + customer name + "In ? A "account number: " + acc-no + "In" + "Type: " + type + 66 \n" + "Balance: " + balance); class sav acc extends account !

poivate static double note = 5;

sav acc (string name, int accono, double Super (name, au-no, " savings", balance); void interest () { balance += balance * (rate)/100; System.out. println (66 balance : " + balance);

double balance = 3. next Double (); int ch: double amount 1, amount 2; account acc = new account (name, acc-no, type, balance); Savace Sa = new savace (name, aceno, balance); currace ca = new currace (name, our no, balance): while (true) { if (acc. type equals (" Savings")) & System. out. println ("In Menu \ns. deposit 2. withdraw. 3. Compute interest 4. display"); System. out. println ("Enten the choice:"); ch = s. next Int (); Switch (ch) & case 1: System out printly ("Enter the amount: "); amount 1 = 3. neat Int (); Sa deposite (amount 1); break; case 2: System. out, printly ("Enter the amount; "); amount 2 = 3. nextent (); Sa. withdraw (amounts); break : Case 3: Sa interest (); break: Case 4: Sa. display (); break:

default: System. out. println ("Invalid inputs);
System. exit (0); System.out. println ("\n Menue \n). deposite 2 with draw 3. display"); System, out println ("Enter the choice: "); Ch = 3. mexInt (); Switch (ch) & System. out println ("Enter the amount: amount i = 3. next Int (); ca deposite (amount 1); break: System. out printly ("Enter the amount: "); amount 2 = 3. meat Int(); ca. withdraw (amount 2); ca checkmin (); Case 3: Ca. display (); default : System. out. println [" Inualid input"); System. exit (0);

0/P:-Enter the name: John Enter the type (current/savings): 1 Enter the account number: 1234 Enter the initial balance: 30,000 Menu 1. deposite 2 withdrawal 3. display Enter the choice: 1 Enter the amount: 80,000 Enter the choice: 2 Enter the amount: 1000 Enter the choice: 3 End Name: john account rumber : 1234 Type: wirent Balanto: 10000 Enter the name: John.B Name: John B

account number: 7272

Type: Savings

Balance: 70000.