Wrote a joine program to create a class Bank that maintains two kinds of account for its customer one colled sowings account and the other consent account. The saving account provides a and withdrawal facilities but no cheque book facilit The current account provides chaque book facility but no interest Current account hosders should also maintain a minimum balance and if balance fales below this level a ervice charge is imposed. Create a class Account that stores customs mame, account rumber a type of account. From this deril the classes cur-acct and ban-acct to make them more specific to thier requirements. Anchede the mecasoly methods in order t achieve the following tasks: Accept deposit from Customer & update the balance Display the balance Compar 2 acposit fraterest Permit withdread and update blance. Check min balance impose

import java. util. Scammer; Class Account String Customor Norma; long accordi String account Type; dans balance; public Acount (5tring customal) ong accord string account type this customor Mam = customer Non this acmo = accho this account type = account ty this bolonce = 0,0 public bid display Balance () System as printer (" Account Mond accoo). comple remoters ("Costones Namo: stomes Namo): System. Out printer () Account to account (00); System our priver (Balance & wistof bigger 3 cooperation,

class Cur Acct entends Account 5 Jouba min Dalanco, do De borvice Change; public Curtact (String austrana Hamo long accord) Super (customos Namo, accoo, "Current") this min Balance = 500. 0. this service charge = 50.0 public void withdraw (double amount) if Coopance - amount >- min Balance & balance - = amount; } System-out printer ("With drawal Successful. Current Balance : 9 "+ bolome System. out. printen ("Ansufficient funds Withdrawal not allowed."); public void imposeservice charge if Chalance & min Balance & balance - = service charge; System ast printers (" sarvice charge

composed . Cerrant Basance: Ps ."+ Dalance) class Sou Acet entends Aceanst double intrest Rate; Public San Acet (String Customer Name song accord) & sign Constorner Marine, acces, "Saving this, intrest Rate = 0.0 beic void compound intexest Caable Intal Amount inthorm) 2 darbe Compand intext = intialament Math pas ((1+ tratgest Pate), texm)trasma; Balance + = compaind Inter; ystem, out partern (" compound Intrest deposited, Certaint Balance: Psi? + balance blic days Bank · public static void main (swing C grammer si = new Sammer Cayeon System, out printen l'Choose account type Sgeton at printen ("1 carent 2. Sanjoge

System out printen ("Ever your choice. () to; then . Id = sight the System at print C" Enter customer nome 5+ sing customer chamo = sc. nend (); System. out printen (" Enter account pumber: ") long accors so rentlang(); i Chaire = = 1 Confront = now Constant CastomorName accord System at printen (" Entry intial balance & "). double intial Balance = Sc. next Durac) cur Account Balance - ential Balance System. out. print ("Enter withdrawal (" trama dashe withdrawal Among sc. newton Cura count. with draw Cosithdrawal amost cur Account impose go xvice change (). curticant . aisplay Balance (); else if (choice = = 2) SONACCE SON ACCOUNT - Per SON ACT CLUST men Marie, accord; System. Out print (in Enter intrial

double intial Balance - ac. nent Double Day Account balance - iptial Balance System. Oct. part (" Entry withdrawd amount: 5"). double is the round A mount = Screw toube ()) Day Account . balance - = with fraval Amount; System. out. printen co Withdrawallson Consent Balance: 5" + DayAccount , balance) System. out. point ("Enter Interest Rate: "): double Interest Rate = Sc. nant Doublec). Day Account. Anterior Rate - interest Rate. Sou Account display Balance (); System. out pointen ("Enter termlinger fox CE Calculation: "). int term & Sc. hent Intel. part Acount compand intrest (introl Bolame, term); bay Account, dispeay Balance (); 3 perse 3. System. out printers ("An walid chail"

Algorithm Steps: Start Steps: Antialise variables and name, accep accepte, balance egs: type : enter untomer name, accord balance account type as baring lace most forestres 80 step4: orter the choice of bavings & corrent Steps Pend the choice if choice is savings them steps for warrant Step 7 steps: enter intial balance, withdrawal amant « min balance from user chart concert for min balance it intial balance - withdrawal should be 7 = min i'e 500 their new Basance = palancewithdrawal) of the of ideal then print current Balance enter interstrate & time to calculate of CI = balance & power (1+ intrestrate, +m - intal balance PXNL CI & deposit with intrest step 7: dre 1/ (choje==2) c'rear objet san Acct intialize intial balance, withdownland, intestal Step 8: Stop

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C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:

    Current

Savings
Enter choice (1 or 2): 1
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $10000
Enter withdrawal amount: $5000
Withdrawal successful. Current Balance: $5000.0
Account Number: 27027027
Customer Name: Akanksha
Account Type: Current
Balance: $5000.0
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:

    Current

Savings
Enter choice (1 or 2): 2
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $5000
Enter withdrawal amount: $500
Withdrawal successful. Current Balance: $4500.0
Enter interest rate: 0.05
Account Number: 27027027
Customer Name: Akanksha
Account Type: Savings
Balance: $4500.0
Enter term (in years) for compound interest calculation: 2
Compound Interest deposited. Current Balance: Rs.5012.5
Account Number: 27027027
Customer Name: Akanksha
Account Type: Savings
Balance: $5012.5
```

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C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:

    Current

Savings
Enter choice (1 or 2): 1
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $800
Enter withdrawal amount: $400
Insufficient funds. Withdrawal not allowed.
Account Number: 27027027
Customer Name: Akanksha
Account Type: Current
Balance: $800.0
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:

    Current

2. Savings
Enter choice (1 or 2): 1
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $400
Enter withdrawal amount: $100
Insufficient funds. Withdrawal not allowed.
Service charge imposed. Current Balance: Rs.350.0
Account Number: 27027027
Customer Name: Akanksha
Account Type: Current
Balance: $350.0
```