```
import java.util.Scanner;
abstract class Account {
 String customerName, accountNumber;
 double balance;
 Account(String customerName, String accountNumber, double initialBalance) {
   this.customerName = customerName;
    this.accountNumber = accountNumber;
    this.balance = initialBalance;
   abstract void deposit(double amount);
    abstract void displayBalance();
   abstract void withdraw(double amount);
class SavAcct extends Account {
   double interestRate;
   SavAcct(String customerName, String accountNumber, double initialBalance, double interestRate) {
        super(customerName, accountNumber, initialBalance);
        this.interestRate = interestRate;
   void deposit(double amount) {
       balance += amount;
   void displayBalance() {
     System.out.println("Savings Balance: " + balance);
   void withdraw(double amount) {
     if (amount <= balance) balance -= amount;
   void computeAndDepositInterest() {
     balance += balance * interestRate / 100;
class CurAcct extends Account {
   static final double MIN BALANCE = 1000, SERVICE CHARGE = 50;
   CurAcct(String customerName, String accountNumber, double initialBalance) {
      super(customerName, accountNumber, initialBalance);
     void deposit(double amount) {
       balance += amount;
    void displayBalance() {
       System.out.println("Current Balance: " + balance);
    void withdraw(double amount) {
        if (amount <= balance) {
          balance -= amount;
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```

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void displayBalance() {
      System.out.println("Current Balance: " + balance);
   void withdraw(double amount) {
       if (amount <= balance) {
         balance -= amount;
         if (balance < MIN BALANCE) balance -= SERVICE CHARGE;
class Bank {
   public static void main(String[] args) {
       Scanner scanner = new Scanner(System.in);
       System.out.println("Enter account type (savings/current): ");
       String type = scanner.nextLine();
       System.out.println("Enter customer name: ");
       String name = scanner.nextLine();
       System.out.println("Enter account number: ");
       String number = scanner.nextLine();
       Account account;
       if (type.equals("savings")) {
           System.out.println("Initial balance and interest rate: ");
           account = new SavAcct(name, number, scanner.nextDouble(), scanner.nextDouble());
       } else {
           System.out.println("Initial balance: ");
           account = new CurAcct(name, number, scanner.nextDouble());
      while (true) {
           System.out.println("\n1. Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit");
           int choice = scanner.nextInt();
           switch (choice) {
               case 1: account.deposit(scanner.nextDouble());
               break;
               case 2: account.displayBalance();
               break;
               case 3: account.withdraw(scanner.nextDouble());
               case 4: if (account instanceof SavAcct) ((SavAcct) account).computeAndDepositInterest();
               break;
               case 5:
               return;
```

```
D:\24BECS409>javac Bank.java
D:\24BECS409>java Bank
Enter account type (savings/current):
saavings
Enter customer name:
srushti
Enter account number:
2837
Initial balance:
372

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

300

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

Current Balance: 672.0

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

200

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

Current Balance: 872.0

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

200

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

Current Balance: 622.0

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit

    Deposit 2. Display Balance 3. Withdraw 4. Interest 5. Exit
```

D:\24BECS409>

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abstract class Account (
diring customorName;
accountNumber;
double balance;

Account (disting ! (ustomer Drame,
String account Number; double intial Balance)?

thes customer Name = customer Name;

this account Number = account Number;

this balance = initial Balance;

Abstract void deposit (double amount); abstract void display Balance (); abstract void withdraw (double amount);

class Savacci extends Accounts
double interest Rate;
Savacci (ofthing customerName, ofthing
account Number, double interestlate) <
Sopen (customerName, account Number,
Sopen (customerName, account Number,

intial Balance); this, interest Rate interest Rate;

void deposit (double amount) {
 balance += amount;

& more void display Balance () dy stem out printin ("davings Balance:"+ yord with draw (double ammount) { ? (amount < = balance) balance += amount; I reaches a realist void ComputeAnd Opposit Interest (1) alance) ? balance +- balance * interestrate / 100; ben; class confect Extends Accounts Statec final double MIN_BALANCE = 1000, SERVICE - CHARGE - 50; Compact (String costomer Name, String account Number, double intral Balancex nount): Super (costom vi Name, account Number ? ntalbolands void deposit (double commount) { bolance + = amount: Void displayBalance () L System out printin ("(Unrent Balance:"+ balance); Void withdraw (double amount) (if camount <= balance) { balance -= amount); 3) (balance < MIN_BALANCE) balance == SERVICE CHARLIE;

class Bank () sucled way on 19 scanner scanner = new Scanner (dy stem in). System. out. prentin ("Enter account type savengs / connent): "); String type is scanner next lines; System, out prentin ("Enter costomer name:"); diring name = Stanner. nextline(); system out prenting and boy Account account; + 9000 od of (type equals (savings")) { System. out. Parentine "Intial balance & Interest rate: "); account = new savacet (name, number, Scanner, next Double(), Scanner. next Double (); correctly a your sign toos correctly) to are madeselser aday Endruktawno identification adjustem out prentin ("Interal balance:"); account - new EurAcci (name, number, Sconner . next Double (1); 01 stavomo = + 9 acilio While (Anue) { System. out. prently ("In1. Deposit Desplay Balance 3. Withdraw 4. Interest 5. Exit "); int choice = scanner nextinto; case 1: account display Balance(); which break; (05.): acrount. withouted (Scanner pextoobled); break,



