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abstract class 	exttt{Account} \{
   private int accountNumber;
   private double balance;
   public Account(int accountNumber, double balance) {
        this.accountNumber = accountNumber;
        this.balance = balance;
   public abstract void deposit(double amount);
   public abstract void withdraw(double amount);
   // Setter method for balance
   protected void setBalance(double balance) {
        this.balance = balance;
   public int getAccountNumber() {
       return accountNumber;
   public double getBalance() {
       return balance;
class SavingsAccount extends Account {
   private double interestRate;
   public SavingsAccount(int accountNumber, double balance, double interestRate) {
        super(accountNumber, balance);
        this.interestRate = interestRate;
   @Override
   public void withdraw(double amount) {
        if (amount <= getBalance()) {</pre>
           setBalance(getBalance() - amount);
        } else {
            System.out.println("Insufficient funds in savings account!");
    // Concrete implementation of deposit method for SavingsAccount
   public void deposit(double amount) {
       double interest = amount * interestRate / 100;
       setBalance(getBalance() + amount + interest);
class CurrentAccount extends Account {
   private double overdraftLimit;
   public CurrentAccount(int accountNumber, double balance, double overdraftLimit) {
        super(accountNumber, balance);
        this.overdraftLimit = overdraftLimit;
   @Override
   public void withdraw(double amount) {
        if (getBalance() + overdraftLimit >= amount) {
           setBalance(getBalance() - amount);
        } else {
            System.out.println("Withdrawal amount exceeds overdraft limit!");
    // Concrete implementation of deposit method for CurrentAccount
   public void deposit(double amount) {
        setBalance(getBalance() + amount);
public class BankingApplication {
   public static void main(String[] args) {
        SavingsAccount savingsAccount = new SavingsAccount(123456, 1000, 5.0);
        CurrentAccount currentAccount = new CurrentAccount(654321, 2000, 500);
        // Deposit operation invoked using concrete deposit method
        savingsAccount.deposit(500);
        currentAccount.deposit(1000);
        // Withdrawal operation invoked using abstract withdraw method
        savingsAccount.withdraw(200);
        savingsAccount.withdraw(2000);
        currentAccount.withdraw(1500);
        currentAccount.withdraw(3000);
       displayAccountDetails(savingsAccount);
        displayAccountDetails(currentAccount);
   public static void displayAccountDetails(Account account) {
        System.out.println("Account Number: " + account.getAccountNumber());
        System.out.println("Balance: " + account.getBalance());
        System.out.println();
```