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//*****
// Account.java
//
// A bank account class with methods to deposit to, withdraw from,
// change the name on, charge a fee to, and print a summary of the account.
//*****

public class Account
{
    private double balance;
    private String name;
    private long acctNum;

    //-----
    //Constructor -- initializes balance, owner, and account number
    //-----
    public Account(double initBal, String user, long number)
    {
        balance = initBal;
        name = user;
        acctNum = number;
    }

    //-----
    // Checks to see if balance is sufficient for withdrawal.
    // If so, decrements balance by amount; if not, prints message.
    //-----
    public void withdraw(double amount)
    {
        if (balance >= amount)
            balance -= amount;
        else
            System.out.println("Insufficient funds");
    }

    //-----
    // Adds deposit amount to balance.
    //-----
    public void deposit(double amount)
    {
        balance += amount;
    }

    //-----
    // Returns balance.
    //-----
    public double getBalance()
    {
        return balance;
    }

    //-----
    // Returns a string containing the name, account number, and balance.
    //-----
    public String summary()
    {
        String accountInfo = "Name: " + name + "\n" + "Account Number: " + acctNum + "\n" + "Balance: " + balance;
        return accountInfo;
    }

    //-----
    // Gets Account Number
    //-----
    public long accountNum()
    {

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    return acctNum;  
}  
  
}
```

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// *****
//  ManageAccounts.java
//  Author: Jennifer Soh  ID: JS542
//  Compiler Used: JGrasp
//  Create and manage a bank account. Uses the Account class.
//  *****
import java.util.Scanner;

public class ManageAccounts
{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);
        Account acct1;

        System.out.println("Please enter your first and last name: ");
        String name = scan.nextLine();

        System.out.println("Please enter a 6 digit account number: ");
        long acctNum = scan.nextLong();

        System.out.println("Please enter your initial balance: ");
        double initBalance = scan.nextDouble();

        //create account1
        acct1 = new Account(initBalance, name, acctNum);

        //print summary for account
        System.out.println("Your Current Account Summary: ");
        System.out.println(acct1.summary());

        // Make a withdraw
        System.out.println("Amount to Withdraw from Your Account (Enter 0 if none): ");
        double debit = scan.nextDouble();
        acct1.withdraw(debit);

        //print new balance using getBalance()
        System.out.printf("New Account Balance after Deposit: $%.2f \n", + acct1.getBalance());

        // Make a deposit
        System.out.println("Amount to deposit to your account (enter 0 if none): ");
        double credit = scan.nextDouble();
        acct1.deposit(credit);

        //print new balance using getBalance()
        System.out.printf("New Account Balance after Deposit: $%.2f \n", acct1.getBalance());

        //Retrieve account number
        System.out.println("Retrieve your account number: " + acct1.accountNum());

        //print summary for account
        System.out.println("Your Current Account Summary: ");
        System.out.println(acct1.summary());
    }
}

```

----jGRASP exec: java ManageAccounts

Please enter your first and last name:

Jennifer Soh

Please enter a 6 digit account number:

984035

Please enter your initial balance:

12498.80

Your Current Account Summary:

Name: Jennifer Soh

Account Number: 984035

Balance: 12498.8

Amount to Withdraw from Your Account (Enter 0 if none):

75.00

New Account Balance after Deposit: \$12423.80

Amount to deposit to your account (enter 0 if none):

360.00

New Account Balance after Deposit: \$12783.80

Retrieve your account number: 984035

Your Current Account Summary:

Name: Jennifer Soh

Account Number: 984035

Balance: 12783.8

----jGRASP: operation complete.