The CheckingAccount Class

Write a program to calculate the account balance for a bank account after a check is written on it.

The IPO Diagram for the **CheckingAccount** program is shown here:

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
| accountNumber  accountBalance  checkAmount | Declare numeric accountNumber, accountBalance, checkAmount, newAccountBalance   1. Prompt for and read accountNumber 2. Prompt for and read accountBalance 3. Prompt for and read checkAmount 4. Calculate newAccountBalance = accountBalance - checkAmount 5. Display accountNumber, accountBalance, checkAmount and newAccountBalance 6. Stop | newAccountBalance |

**Your task:**

1. Code the **CheckingAccount** class.
2. Test the program using the test cases shown here.

| Test Plan for CheckingAccount Program | | | | |
| --- | --- | --- | --- | --- |
| Test Case | | *Input Data* | ***Calculation*** | ***Expected output*** |
|  | Use a numeric literal for check value for first checkingAccount in program | accountNumber = 12345  accountBalance = 1000.0  checkAmount = 100 | newAccountBalance = 1000 – 100 = 900 | The starting balance for account number 12345 is $1000.0  The balance in account 12345 after drawing a cheque for $100 is $900.0 |
|  | Use a numeric literal for check value for second checkingAccount in program | accountNumber = 78901  accountBalance = 750.25  checkAmount = 15.35 | newAccountBalance = 750.25 – 15.35 =734.9 | The starting balance for account number 78901 is $750.25  The balance in account 78901 after drawing a cheque for $15.35 is $734.9 |