PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SEARCH: Q Search

X

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Class LineOfCredit

java.lang.Object

BankAccount

LineOfCredit

public class LineOfCredit
extends BankAccount

Line of credit class for CS1083 With a line of credit, the "balance" variable represents how much money the customer has borrowed. The balance is at most \$0.00, meaning no money is currently owed on this account. Or the balance can be a negative amount, indicating the amount currently owed.

Field Summary

Fields

Modifier and Type	Field	Description
private int	creditLimit	Credit limit in pennies - a negative number, indicating the maximum amount that can be borrowed on this line of credit.

Constructor Summary

Constructors

Constructor	Description
<pre>LineOfCredit(int accountNumberIn, int creditLimitIn)</pre>	Constructs a LineOfCredit object given an account number and credit limit.
<pre>LineOfCredit(int accountNumberIn, int creditLimitIn, int balanceIn)</pre>	Constructs a LineOfCredit object given an account number, initial balance, and credit limit.

Method Summary

All Methods	Instance Methods	Concrete Methods		
Modifier and Typ	e Method	Description		
void	<pre>deposit (int deposit.</pre>		o this account, which nt on the amount owed.	
int	getCreditLim	it() Accessor method fo	r creditLimit.	
void	<pre>setCreditLim (int creditL</pre>	Withtator inclined for	r creditLimit.	
java.lang.St	ring toString()	11	Supplies the account number, balance and credit limit as a String.	
void	withdraw (int withdra	_	Withdraws money from this account, which represents borrowing money from the line of credit.	

Methods inherited from class BankAccount

getAccountNumber, getBalance, setBalance

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait,
wait

Field Detail

creditLimit

```
private int creditLimit
```

Credit limit in pennies - a negative number, indicating the maximum amount that can be borrowed on this line of credit.

Constructor Detail

LineOfCredit

Constructs a LineOfCredit object given an account number, initial balance, and credit limit. Remember, when you construct a subclass object, you are also creating an instance of the superclass. So in this case a LineOfCredit object is also a BankAccount object. Even though the LineOfCredit class only defines one instance variable (creditLimit), a LineOfCredit object inherits the accountNumber and balance variables from the BankAccount class. This happens automatically when you use "extends BankAccount" in the first line of this class definition.

Parameters:

accountNumberIn - The given account number.

creditLimitIn - The given credit limit in pennies (a negative amount).

balanceIn - The given balance in pennies (o or a negative amount).

LineOfCredit

Constructs a LineOfCredit object given an account number and credit limit.

Parameters:

accountNumberIn - The given account number.

creditLimitIn - The given credit limit in pennies (a negative amount).

Method Detail

getCreditLimit

public int getCreditLimit()

Accessor method for creditLimit.

Returns:

The credit limit in pennies.

setCreditLimit

public void setCreditLimit(int creditLimitIn)

Mutator method for creditLimit.

Parameters:

creditLimitIn - The given credit limit in pennies.

deposit

Deposits money into this account, which represents a payment on the amount owed. The deposit is performed only if the payment does not take the balance above \$0.00.

Overrides:

deposit in class BankAccount

Parameters:

depositAmount - The amount to be deposited in pennies.

Throws:

OverpaymentException - When the deposit attempts to increase the balance to be greater than \$0.00

withdraw

Withdraws money from this account, which represents borrowing money from the line of credit. The withdrawal is performed only if the transaction does not take the balance below the credit limit.

Overrides:

withdraw in class BankAccount

Parameters:

withdrawalAmount - The amount to be withdrawn in pennies.

Throws:

InsufficientFundsException - When the withdrawal attempts to reduce the balance below the credit limit.

toString

public java.lang.String toString()

Supplies the account number, balance and credit limit as a String.

Overrides:

toString in class BankAccount

Returns:

A String representation of the account number, balance, and credit limit for this LineOfCredit instance. The balance and credit limit are formatted in currency format.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD