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SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

Class BankAccount

java.lang.Object BankAccount

Direct Known Subclasses:

LineOfCredit

public class BankAccount extends java.lang.Object

Basic bank account class for CS1083. Balances are not permitted to go below \$0.00

Field Summary

Fields

Modifier and Type	Field	Description
private int	accountNumber	Account number.
private int	balance	Account balance stored as pennies.

Constructor Summary

Constructors		
Constructor	Description	
BankAccount(int accountNumber	Constructs a BankAccount object given the account number.	
<pre>BankAccount(int accountNumber int balanceIn)</pre>	Constructs a BankAccount object given the account number and an initial balance.	

Method Summary

All Methods Ins	tance Methods	Concrete Methods		
Modifier and Type	Method	Desc	ription	
void	<pre>deposit (int deposit</pre>	-	osits money into this account.	
int	getAccountNu	Acce	ssor method for accountNumber.	
int	<pre>getBalance()</pre>	Acce	ssor method for balance.	
void	setBalance (int balance		Mutator method for balance.	
java.lang.Strin	g toString ()		olies the account number and balance String.	
void	<pre>withdraw (int withdra</pre>		ndraws money from this account.	

Methods inherited from class java.lang.Object

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

Field Detail

accountNumber

private int accountNumber Account number.

balance

private int balance

Account balance stored as pennies.

Constructor Detail

BankAccount

Constructs a BankAccount object given the account number and an initial balance.

Parameters:

accountNumberIn - The given account number.

balanceIn - The initial balance in pennies.

BankAccount

public BankAccount(int accountNumberIn)

Constructs a BankAccount object given the account number. The initial balance is set to o pennies, which represents \$0.00

Parameters:

accountNumberIn - The given account number.

Method Detail

getAccountNumber

public int getAccountNumber()

Accessor method for accountNumber.

Returns:

The account number.

getBalance

public int getBalance()

Accessor method for balance.

Returns:

The balance in pennies.

setBalance

public void setBalance(int balanceIn)

Mutator method for balance.

Parameters:

balanceIn - The new balance in pennies.

deposit

Deposits money into this account.

Parameters:

depositAmount - The amount to be deposited in pennies.

Throws:

OverpaymentException - Included here only to be consistent with the overridden 'deposit' method in the child LineOfCredit class.

withdraw

Withdraws money from this account.

Parameters:

withdrawalAmount - The amount to be withdrawn in pennies. The withdrawal happens only if the balance will remain at least \$0.00

Throws:

InsufficientFundsException - When the withdrawal attempts to reduce the balance below \$0.00

toString

public java.lang.String toString()

Supplies the account number and balance as a String.

Overrides:

toString in class java.lang.Object

Returns:

A String representation of the account number and balance for this BankAccount instance. The balance is formatted in currency format.

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