

ErrorCheck

Assignment

1. Modify the `CheckingAccount` class shown below to throw an `IllegalArgumentException` in any of the following circumstances:
 - when the account is constructed with a negative balance,
 - when a negative amount is deposited, or
 - when the account is overdrawn (when the amount withdrawn exceeds the current balance).
2. An `IllegalArgumentException` is an unchecked exception that is thrown to indicate that a method has been passed an illegal or inappropriate argument.

```
public class CheckingAccount
{
    private double myBalance;
    private int myAccountNumber;

    public CheckingAccount()
    {
        myBalance = 0.0;
        myAccountNumber = 0;
    }

    public CheckingAccount(double initialBalance, int acctNum)
    {
        myBalance = initialBalance;
        myAccountNumber = acctNum;
    }

    public double getBalance()
    { return myBalance; }

    public void deposit(double amount)
    { myBalance += amount; }

    public void withdraw( double amount )
    { myBalance -= amount; }
}
```

Instructions

1. Modify the `CheckingAccount` class to handle errors and write a test program to go with it.

Sample Output

Initial balance is: \$10,000.00

Deposit: \$5,200.00 ==> Current balance is: \$15,200.00

Withdrawal: \$7,400.00 ==> Current balance is: \$7,800.00

OPERATION DENIED! ==> INSUFFICIENT FUNDS

Withdrawal request: \$9,000.00 Funds available: \$7,800.00

java.lang.IllegalArgumentException

at CheckingAccount.withdraw(CheckingAccount.java:46)

at CheckingAccountTest.main(CheckingAccountTest.java:25)