using Microsoft.VisualStudio.TestTools.UnitTesting;

using BankAccountNS;

namespace BankTests

{

[TestClass]

public class BankAccountTests

{

[TestMethod]

public void Debit\_WithValidAmount\_UpdatesBalance()

{

// Arrange

double beginningBalance = 11.99;

double debitAmount = 4.55;

double expected = 7.44;

BankAccount account = new BankAccount("Mr. Burdett Wilson", beginningBalance);

// Act

account.Debit(debitAmount);

// Assert

double actual = account.Balance;

Assert.AreEqual(expected, actual, 0.001, "Account not debited correctly");

}

[TestMethod]

public void Debit\_WhenAmountIsLessThanZero\_ShouldThrowArgumentOutOfRange()

{

// Arrange

double beginningBalance = 11.99;

double debitAmount = -100.00;

BankAccount account = new BankAccount("Mr. Burdett Wilson", beginningBalance);

// Act and assert

Assert.ThrowsException<System.ArgumentOutOfRangeException>(() => account.Debit(debitAmount));

}

}

}