using System;

namespace BankAccountNS

{

// Bank account demo class.

public class BankAccount

{

private readonly string m\_customerName;

private double m\_balance;

private BankAccount() { }

public BankAccount(string customerName, double balance)

{

m\_customerName = customerName;

m\_balance = balance;

}

public string CustomerName

{

get { return m\_customerName; }

}

public double Balance

{

get { return m\_balance; }

}

public void Debit(double amount)

{

if (amount > m\_balance)

{

throw new ArgumentOutOfRangeException("amount");

}

if (amount < 0)

{

throw new ArgumentOutOfRangeException("amount");

}

m\_balance -= amount; // intentionally incorrect code

}

public void Credit(double amount)

{

if (amount < 0)

{

throw new ArgumentOutOfRangeException("amount");

}

m\_balance += amount;

}

public static void Main()

{

BankAccount ba = new BankAccount("Mr. Burdett Wilson", 11.99);

ba.Credit(5.77);

ba.Debit(11.22);

Console.WriteLine("Current balance is ${0}", ba.Balance);

}

}

}