

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace BankAccountNS
{
    public class BankAccount
    {
        private string m_customerName;
        private bool m_frozen = false;
        private double m_balance;

        private BankAccount(){}

        // Constructeur
        public BankAccount(string CustomerName, double Balance)
        {
            m_balance = Balance;
            m_customerName = CustomerName;
        }

        public string CustomerName
        {
            get { return m_customerName; }
        }

        public double Balance
        {
            get { return m_balance; }
        }

        public void Debit(double amount)
        {
            if (m_frozen)
            {
                throw new Exception("Account frozen");
            }
            if (amount > m_balance)
            {
                throw new ArgumentOutOfRangeException("amount");
            }
        }
    }
}
```

```

        if (amount<0)
        {
            throw new ArgumentOutOfRangeException("amount");
        }

        m_balance -= amount;
    }

    public void Credit(double amount)
    {
        if (m_frozen)
        {
            throw new Exception("Account frozen");
        }
        if (amount<0)
        {
            throw new ArgumentOutOfRangeException("amount");
        }
        m_balance += amount;
    }

    private void FreezeAccount()
    {
        m_frozen = true;
    }

    private void UnFreezeAccount()
    {
        m_frozen = false;
    }

    public static void Main()
    {
        BankAccount ba = new BankAccount("Mr Fabien GAUDRON", 11.99);
        ba.Credit(5.77);
        ba.Debit(11.22);
        Console.WriteLine("Curent balance is {0}", ba.Balance);
        Console.ReadKey();
    }
}
}

```