BÀI TẬP BUỔI 4

Học phần: Lập trình .NET_TN207

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1. Tạo ứng dụng 18_QuanLyTheATM

```
Program.cs
⁴ _18_QuanLyTheATM.TaiKhoanATM
                                                       → 💁 intSoTK
   □using System;
    using System.Collections.Generic;
    using System.Linq;
    using System.Text;
    using System.Threading.Tasks;
   □namespace _18_QuanLyTheATM
    {
         class TaiKhoanATM
             private int intSoTK;
             private string stringTenTK;
             private float floatSoDuTK;
             public TaiKhoanATM()
                 intSoTK = 0;
                 stringTenTK = "";
                 floatSoDuTK = 0;
             public TaiKhoanATM(int soTK, string tenTK, float soDuTK)
                 intSoTK = soTK;
                 stringTenTK = tenTK;
                 floatSoDuTK = soDuTK;
             public int SoTK
                 get { return intSoTK; }
                 set { intSoTK = value; }
             public string TenTK
                 get { return stringTenTK; }
                 set { stringTenTK = value; }
             public float soDuTK
                 get { return floatSoDuTK; }
                 set { floatSoDuTK = value; }
             virtual public float soTienToiDa
                 get
                 {
                     return soDuTK;
```

```
public void guiTien(float st)
         Console.WriteLine("tai khoan " + SoTK + " muon gui so tien " + st.ToString("$ #,##0.00"));
        if (st > 0)
        {
             floatSoDuTK += st;
        }
        else
         {
             Console.WriteLine("so tien khong hop le !");
         Console.WriteLine("---- Sau khi thuc hien giao dich---- ");
         this.toString();
    }
    public void rutTien(float st)
         Console.WriteLine("tai khoan " + SoTK + " muon rut so tien " + st.ToString("$ #,##0.00"));
        if ((st > 0) && (soTienToiDa >= st))
            soDuTK -= st;
        }
        else
         {
            Console.WriteLine("so tien rut nhieu hon so tien trong tai khoan !\n");
        Console.WriteLine("---- Sau khi thuc hien giao dich---- ");
         this.toString();
    }
    public void chuyenKhoan(TaiKhoanATM TK, float st)
         Console.WriteLine("Tai khoan " + this.SoTK + " chuyen cho tai khoan " + TK.SoTK + " so tien " + st.ToS
        if (this.SoTK != TK.SoTK)
             if (st > 0 && soTienToiDa >= st)
                 TK.soDuTK += st;
                 soDuTK -= st;
             }
            else
             {
                 Console.WriteLine("loi nhap so tien khong hop le hoac so du khong du !");
             }
        }
         else
         {
             Console.WriteLine("tai khoan nhan tien khong hop le !");
         Console.WriteLine("---- Sau khi thuc hien giao dich---- ");
         this.toString();
    }
    virtual public void toString()
        Console.WriteLine("---- Thong tin tai khoan---- ");
        Console.WriteLine("So tai khoan : " + SoTK);
Console.WriteLine("Ten tai khoan : " + TenTK);
        Console.WriteLine("So du tai khoan : " + soDuTK.ToString("$ #,##0.00") + "\n");
}
```

```
rogram.cs 🗢 🗙 TaiKhoanATM.cs
🐾 _18_QuanLyTheATM.Program
                                                          → 💁 Main(string[] args)
   □using System;
    using System.Collections.Generic;
    using System.Linq;
    using System.Text;
    using System.Threading.Tasks;
   □namespace _18_QuanLyTheATM
    {
         class Program
             static void Main(string[] args)
                 TaiKhoanATM TK1 = new TaiKhoanATM();
                 TaiKhoanATM TK2 = new TaiKhoanATM(2, "TK2",0);
TaiKhoanATM TK3 = new TaiKhoanATM(3, "TK3", 500);
                 List<TaiKhoanATM> dsTK = new List<TaiKhoanATM>();
                  TK1.SoTK = 1;
                 TK1.TenTK = "Nguyen Phuoc Trong";
                  TK1.soDuTK = 300;
                  int iSoTK = TK1.SoTK;
                  string sTenTK = TK1.TenTK;
                  float fSoDuTK = TK1.soDuTK;
                  float fSoDuToiDa = TK1.soTienToiDa;
                  TK1.toString();
                  TK2.toString();
                  TK3.toString();
                  TK1.guiTien(500);
                  TK1.rutTien(200);
                  TK1.rutTien(300);
                  TK3.chuyenKhoan(TK3, 400);
                  TK3.chuyenKhoan(TK2, -400);
                  TK3.chuyenKhoan(TK2, 400);
                  TK3.chuyenKhoan(TK1, 200);
                  Console.ReadLine();
```

```
III file:///D:/TN207/Buoi4/18_QuanLyTheATM/18_QuanLyTheATM/bin/Debug/18_QuanLyTheATM.
---- Thong tin tai khoan-----
So tai khoan : 1
Ten tai khoan : Nguyen Phuoc Trong
So du tai khoan : $ 300.00
----- Thong tin tai khoan-----
So tai khoan : 2
Ten tai khoan : TK2
So du tai khoan : $ 0.00
----- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 500.00
tai khoan 1 muon gui so tien $ 500.00
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan-----
So tai khoan : 1
Ten tai khoan : Nguyen Phuoc Trong
So du tai khoan : $ 800.00
tai khoan 1 muon rut so tien $ 200.00
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan----
So tai khoan : 1
Ten tai khoan : Nguyen Phuoc Trong
So du tai khoan : $ 600.00
tai khoan 1 muon rut so tien $ 300.00
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan-----
So tai khoan : 1
Ten tai khoan : Nguyen Phuoc Trong
So du tai khoan : $ 300.00
```

```
Tai khoan 3 chuyen cho tai khoan 3 so tien $ 400.00
tai khoan nhan tien khong hop le !
----- Sau khi thuc hien giao dich-----
----- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 500.00
Tai khoan 3 chuyen cho tai khoan 2 so tien -$ 400.00
loi nhap so tien khong hop le hoac so du khong du !
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 500.00
Tai khoan 3 chuyen cho tai khoan 2 so tien $ 400.00
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 100.00
```

```
Tai khoan 3 chuyen cho tai khoan 3 so tien $ 400.00
tai khoan nhan tien khong hop le !
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 500.00
Tai khoan 3 chuyen cho tai khoan 2 so tien -$ 400.00
loi nhap so tien khong hop le hoac so du khong du !
----- Sau khi thuc hien giao dich-----
----- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 500.00
Tai khoan 3 chuyen cho tai khoan 2 so tien $ 400.00
----- Sau khi thuc hien giao dich-----
---- Thong tin tai khoan----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 100.00
Tai khoan 3 chuyen cho tai khoan 1 so tien $ 200.00
loi nhap so tien khong hop le hoac so du khong du !
----- Sau khi thuc hien giao dich-----
----- Thong tin tai khoan-----
So tai khoan : 3
Ten tai khoan : TK3
So du tai khoan : $ 100.00
```

2. Trong ứng dụng 18_QuanLyTheATM (Bài 1)

```
TaiKhoanATM.cs
TaiKhoanThuong.cs → X Program.cs
🐾 _18_QuanLyTheATM.TaiKhoanThuong
                                                          → 🔯 TaiKhoanThuong(int soTK, string tenTK, float soDuTK)
    \
         class TaiKhoanThuong : TaiKhoanATM
              private static float soDuToiThieu = 50;
              public TaiKhoanThuong()
                  : base()
              public TaiKhoanThuong(int soTK, string tenTK, float soDuTK)
                  : base(soTK, tenTK, soDuTK)
              override public float soTienToiDa
              {
                  get
                      return soDuTK - soDuToiThieu;
             public override void toString()
                  Console.WriteLine("Tai khoan thuong");
                  base.toString();
                 Program.cs 🗢 🗙 TaiKhoanATM.cs
TaiKhoanThuong.cs
🐾 _18_QuanLyTheATM.Program
                                                          → 🕰 Main(string[] args)
    {
         class Program
         {
              static void Main(string[] args)
   Ė
                  TaiKhoanATM TK1 = new TaiKhoanATM();
                  TaiKhoanATM TK2 = new TaiKhoanATM(2, "TK2",0);
                  TaiKhoanATM TK3 = new TaiKhoanATM(3, "TK3", 500);
                  TaiKhoanThuong TK4 = new TaiKhoanThuong();
                  TaiKhoanThuong TK5 = new TaiKhoanThuong(5, "Nguyen van A", 1000);
                  List<TaiKhoanATM> dsTK = new List<TaiKhoanATM>();
                  TK4.toString();
                  TK5.toString();
                  TK5.guiTien(300);
                  TK5.chuyenKhoan(TK3, 200);
                  TK5.rutTien(1000);
                  TaiKhoanATM TK6 = new TaiKhoanThuong(6, "Nguyen Van C" , 1100);
                  TK6.toString();
                  TK6.chuyenKhoan(TK2, 1000);
                  TK2.toString();
                  TK6.rutTien(500);
```

```
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 0
Ten tai khoan :
So du tai khoan : $ 0.00
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 1,000.00
tai khoan 5 muon gui so tien $ 300.00
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 1,300.00
Tai khoan 5 chuyen cho tai khoan 3 so tien $ 200.00
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 1,100.00
tai khoan 5 muon rut so tien $ 1,000.00
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
 ---- Thong tin tai khoan-----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 100.00
```

```
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 6
Ten tai khoan : Nguyen Van C
So du tai khoan : $ 1,100.00
Tai khoan 6 chuyen cho tai khoan 2 so tien $ 1,000.00
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
---- Thong tin tai khoan-----
Ma tai khoan : 6
Ten tai khoan : Nguyen Van C
So du tai khoan : $ 100.00
----- Thong tin tai khoan-----
Ma tai khoan : 2
Ten tai khoan : TK2
So du tai khoan : $ 1,000.00
tai khoan 6 muon rut so tien $ 500.00
so tien rut nhieu hon so tien trong tai khoan !
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 6
Ten tai khoan : Nguyen Van C
So du tai khoan : $ 100.00
```

3. Trong ứng dụng 18_QuanLyTheATM

```
TaiKhoanVip.cs + X TaiKhoanThuong.cs Program.cs TaiKhoanATM.cs
🐾 _18_QuanLyTheATM.TaiKhoanVip

→ Ø toString()

   {
         class TaiKhoanVip :TaiKhoanATM
              private float soDuToiThieu= -100;
             public TaiKhoanVip()
                  : base()
             public TaiKhoanVip(int soTK, string tenTK, float soDuTK)
                  : base(soTK, tenTK, soDuTK)
             override public float soTienToiDa
                  get
                  {
                      return soDuTK - soDuToiThieu;
              public override void toString()
                  Console.WriteLine("Tai khoan VIP");
                  base.toString();
         }
    }
TaiKhoanVip.cs
              TaiKhoanThuong.cs
                               Program.cs + X TaiKhoanATM.cs
🐾 _18_QuanLyTheATM.Program

▼ Main(string[] args)

              static void Main(string[] args)
                   TaiKhoanATM TK1 = new TaiKhoanATM();
                  TaiKhoanATM TK2 = new TaiKhoanATM(2, "TK2",0);
TaiKhoanATM TK3 = new TaiKhoanATM(3, "TK3", 500);
                   TaiKhoanThuong TK4 = new TaiKhoanThuong();
                   TaiKhoanThuong TK5 = new TaiKhoanThuong(5,"Nguyen van A", 1000);
                   TaiKhoanVip TK7 = new TaiKhoanVip();
                   TaiKhoanVip TK8 = new TaiKhoanVip(8, "Nguyen van C", 1000);
                   TK7.toString();
                   TK8.toString();
                   TK8.guiTien(300);
                   TK8.chuyenKhoan(TK5, 200);
                   TK5.toString();
                   TK8.rutTien(1200);
                   TK8.rutTien(100);
                   TaiKhoanATM TK9 = new TaiKhoanThuong(9, "Nguyen Van D", 1254);
                   TK9.toString();
                   TK9.chuyenKhoan(TK5, 1000);
                   TK5.toString();
                   TK9.rutTien(500);
```

```
Tai khoan VIP
---- Thong tin tai khoan----
Ma tai khoan : 0
Ten tai khoan :
So du tai khoan : $ 0.00
Tai khoan VIP
---- Thong tin tai khoan----
Ma tai khoan : 8
Ten tai khoan : Nguyen van C
So du tai khoan : $ 1,000.00
tai khoan 8 muon gui so tien $ 300.00
----- Sau khi thuc hien giao dich-----
Tai khoan VIP
---- Thong tin tai khoan----
Ma tai khoan : 8
Ten tai khoan : Nguyen van C
So du tai khoan : $ 1,300.00
Tai khoan 8 chuyen cho tai khoan 5 so tien $ 200.00
 ----- Sau khi thuc hien giao dich--
Tai khoan VIP
---- Thong tin tai khoan----
Ma tai khoan : 8
Ten tai khoan : Nguyen van C
So du tai khoan : $ 1,100.00
Tai khoan thuong
---- Thong tin tai khoan----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 1,200.00
tai khoan 8 muon rut so tien $ 1,200.00
---- Sau khi thuc hien giao dich---
Tai khoan VIP
---- Thong tin tai khoan----
Ma tai khoan : 8
Ten tai khoan : Nguyen van C
So du tai khoan : -$ 100.00
tai khoan 8 muon rut so tien $ 100.00
so tien rut nhieu hon so tien trong tai khoan !
----- Sau khi thuc hien giao dich-----
Tai khoan VIP
---- Thong tin tai khoan-----
Ma tai khoan : 8
Ten tai khoan : Nguyen van C
So du tai khoan : -$ 100.00
```

```
Tai khoan thuong
---- Thong tin tai khoan-----
Ma tai khoan : 9
Ten tai khoan : Nguyen Van D
So du tai khoan : $ 1,254.00
Tai khoan 9 chuyen cho tai khoan 5 so tien $ 1,000.00
----- Sau khi thuc hien giao dich-----
Tai khoan thuong
---- Thong tin tai khoan----
Ma tai khoan : 9
Ten tai khoan : Nguyen Van D
So du tai khoan : $ 254.00
Tai khoan thuong
----- Thong tin tai khoan-----
Ma tai khoan : 5
Ten tai khoan : Nguyen van A
So du tai khoan : $ 2,200.00
tai khoan 9 muon rut so tien $ 500.00
so tien rut nhieu hon so tien trong tai khoan !
---- Sau khi thuc hien giao dich----
Tai khoan thuong
---- Thong tin tai khoan----
Ma tai khoan : 9
Ten tai khoan : Nguyen Van D
So du tai khoan : $ 254.00
```