



Thực hành Kỹ thuật lập trình nâng cao

Lab 2: PROPERTIES

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1 Bài 1

```
using System;

namespace classLab
{
    internal class UserInformation
    {
        private string userName;
        private int userAge;
        private uint userID;

        public string UserName
        {
            get { return userName; }
            set
            {
                userName = value;
            }
        }
        public int UserAge
        {
            get { return userAge; }
            set
            {
                if (value > 18)
                {
                    userAge = value;
                }
                else
                {
                    throw new ArgumentException("Error!\r\nUsers age must be larger than 18.");
                }
            }
        }
        public uint UserID
        {

```

```

    get { return userID; }
    set
    {
        if (!(value < 1000 || value > 9999))
        {
            userID = value;
        }
        else
        {
            throw new ArgumentException("Error! ID must be between 1000 and
            9999.");
        }
    }
}

public UserInformation()
{ }
public UserInformation(string name, int age, uint id)
{
    UserName = name;
    UserAge = age;
    UserID = id;
}
public override string ToString()
{
    //return "[" + userName + "," + userAge + "," + userID + "]";
    return String.Format($"[{userName}, {userAge}, {userID}]");
}
}
}

```

Listing 1: UserInformation.cs

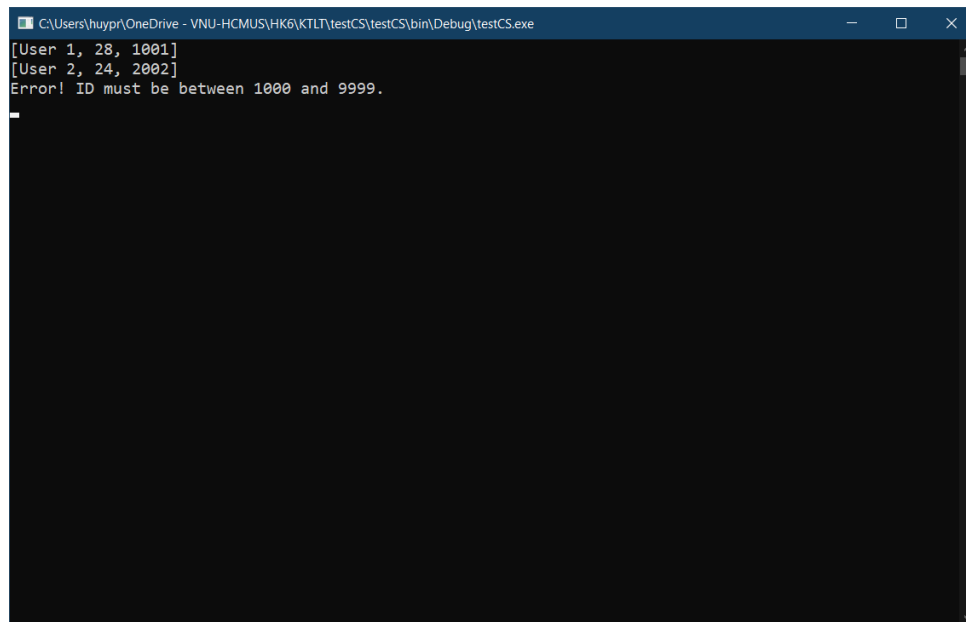
```

using System;

namespace classLab
{
    class Program
    {
        UserInformation user1 = new UserInformation("User 1", 28, 1001);
        Console.WriteLine($"{user1}");
        UserInformation user2 = new UserInformation("User 2", 24, 2002);
        Console.WriteLine($"{user2}");
        UserInformation user3 = new UserInformation("User 3", 43, 003);
        Console.WriteLine($"{user3}");
    }
}

```

Listing 2: Program.cs



Hình 1: Ouptut bài 1

2 Bài 2

```
using System;

namespace classLab
{
    internal class UserInformation
    {
        private string userName;
        private int userAge;
        private uint userID;

        public string UserName
        {
            get { return userName; }
            set
            {
                userName = value;
            }
        }
        public int UserAge
        {
            get { return userAge; }
            set
            {
                if (value > 18)
                {
                    userAge = value;
                }
                else
                {
                    throw new ArgumentException("Error!\r\nUsers age must be larger than 18.");
                }
            }
        }
    }
}
```

```

    }
}
}
public uint UserID
{
    get { return userID; }
    set
    {
        if (!(value < 1000 || value > 9999))
        {
            userID = value;
        }
        else
        {
            throw new ArgumentException("Error! ID must be between 1000 and
                9999.");
        }
    }
}

public UserInformation()
{ }
public UserInformation(string name, int age, uint id)
{
    UserName = name;
    UserAge = age;
    UserID = id;
}
public override string ToString()
{
    //return "[" + userName + "," + userAge + "," + userID + "]";
    return String.Format($"[{userName}, {userAge}, {userID}]");
}
}
}

```

Listing 3: Point.cs

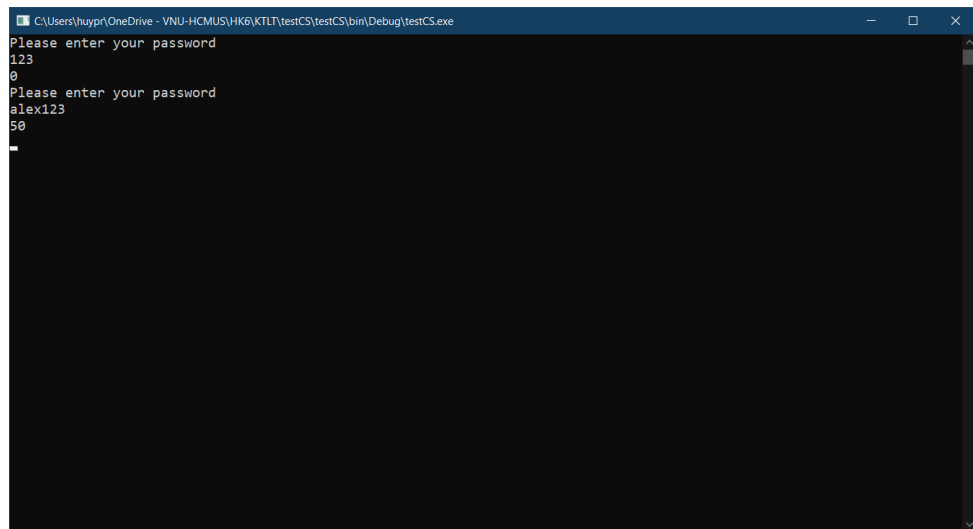
```

using System;

namespace classLab
{
    class Program
    {
        UserInformation user1 = new UserInformation("User 1", 28, 1001);
        Console.WriteLine($"{user1}");
        UserInformation user2 = new UserInformation("User 2", 24, 2002);
        Console.WriteLine($"{user2}");
        UserInformation user3 = new UserInformation("User 3", 43, 003);
        Console.WriteLine($"{user3}");
    }
}

```

Listing 4: Program.cs



```
C:\Users\huypn\OneDrive - VNU-HCMUS\HK6\KTLT\testCS\testCS\bin\Debug\testCS.exe
Please enter your password
123
0
Please enter your password
alex123
50
-
```

Hình 2: Output bài 2

Source code: [Github](#)