Class-Components-Exercise

Due by 01-25-2017 11:00AM E1,E2,E3,E4必做,E5,E6选做

Class components include field, property, method, constructor. In this exercise, you will practice how to use each component.

E1: write a Person class.

Each Person object can have different nationality, different gender, different race. You need to write constructor and use "this" keyword.

本题训练constructor 和 "this" 关键字

E2:

write a Person class. In Person class, you should have _name field ,_age field, and _gender field and respective properties. You need to write property to make the _name of Person can only be "John". As for the _age field, you keep to keep _age of Person is between [0,120]. gender can only be female or male.

本题训练如何用property 保护字段

E3:

在E1 和E2 的基础上, 在Person class 加入method: GetAllInfor(); 在这个method 里面打印出所有property 的信息。

E4:

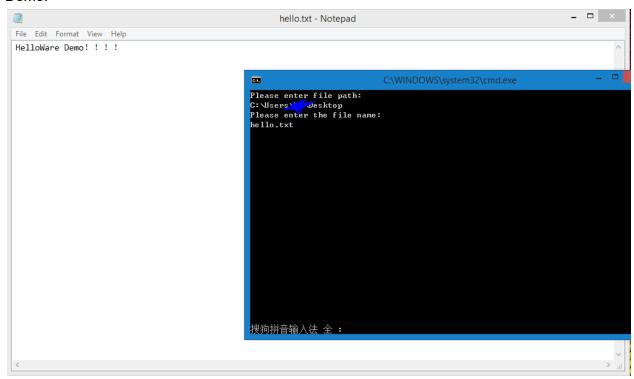
训练Inheritance Write an abstract class Animal and at least 3 child classes inherited from Animal: Dog, Cat, Bird, ... Each child class should override Bark() method in abstract class Animal.

本题训练如何继承父类, 并且override 父类里面的abstract or virtual methods.

(Optional) ***E5:

打开文件练习。write a class FilerOpener. In this class, you need to write the filePath and fileName from console. Your code needs to at least open 3 types of files (".txt", ".avi", ".mp4")

Demo:



这一题练习如何打开文件。需要自己搜索。因为进程还没讲到, 给大家写好了OpenFile() method.

```
//使用这个函数 用来打开指定的文件
public void OpenFile()
{
    ProcessStartInfo psi = new ProcessStartInfo(this.FilePath + "\\" + this.FileName);
    Process pro = new Process();
    pro.StartInfo = psi;
    pro.Start();
}
```

(Optional) ***E6:

自己写一个石头,剪刀,布游戏。 玩家 vs 电脑

Demo(只是example,帮助大家理解题意。大家自己设计自己界面):

初始界面:



玩家选择后界面:

