C# Programming Homework 13

Chapter 13, C# Step by Step

November 6, 2019

Readings

Read chapter 13 in the C# Step by Step book.

Discussion Questions

Answer the discussion questions in writing.

1. What is an interface as the term is used on object-oriented programming?

A programming structure that allows the computer to enforce properties on an object.

1. How do you define an interface?

An interface separates the “what” from the “how”

1. Can an interface have variables, fields, or properties?

Yes

1. How do you define a method in an interface?

Each method has to match its corresponding interface method exactly

1. Can you instantiate an object through an interface? Why or why not?

Yes

1. Using the new keyword, can you declare a reference to an interface?

Yes

1. Can an object inherit from multiple interfaces? Can a class implement multiple interfaces? If so, how

can it do so?

Yes. Yes. With a :

1. What does it mean to explicitely implement an interface?

Specify which interface a method belongs to when you implement it

1. What are the restrictions on interfaces?

You cannot nest types, You’re not allowed to define a destructor, You cannot specify an access modifier for any method.

1. What is the difference between an abstract class and an interface?

An interface only allows you to define functionality, not implement it.

1. What is an abstract method?

It’s like a virtual method except it doesn’t contain a method body

1. What is an sealed class?

A class that’s prevented from being a base class

1. What is an sealed method?

A method that you can not override