C# Programming Homework 12

Chapter 12, C# Step by Step

Readings

Read chapter 12 in the C# Step by Step book.

Discussion Questions

Answer the discussion questions in writing.

- 1. How does inheritance promote the principle of don't repeat yourself (DRY)?
- 2. What is the syntax of a derived class that inherits from a base class?
- 3. Do all user defined types (classes and structs) inherit from some base class? If so, what is it?
- 4. What happens if you do not have a default constructor in a base class when creating a derived class?
- 5. Can you assign a variable of a derived class to another variable of its base class? Why or why not?
- 6. Can you assign a variable of a derived class to another variable of a derived class of its base class? Why or why not?
- 7. Can you assign a variable of a base class to another variable of a derived class? Why or why not?
- 8. Under what circumstances would you want to use the *new* keyword when defining a method in a derived class?
- 9. What is a virtual method? Why would you want to define a virtual method?
- 10. What does override do? Why does it do it?
- 11. How do you define an extension type?
- 12. Why do you define an extension type?
- 13. (Not in book) Explain the Liskov substitution principle.