C# Programming Homework 03

Chapter 03, C# Step by Step

Readings

Read chapter 3, pages 59 – 86 in the C# Step by Step book.

Discussion Questions

Answer the discussion questions in writing for chapter 3.

1. What is a method?

**A named sequence of statements.**

2. What does a return statement do?

**Stops a method / Is usually positioned at the end of the method because it causes the method to finish.**

3. What is an expression bodied method?

**consists of a single expression that returns a value whose type matches the method's return type, or, for methods that return void, that performs some operation.**

4. What is the scope of a variable?

**region of code within which a variable is visible**. Variable scoping helps avoid variable naming conflicts. The concept is intuitive: two functions can both have arguments called x without the two x's referring to the same thing.

5. What is an overloaded method?

**If two identifiers have the same name and are declared in the same scope, they are said to be overloaded.**

6. How do you call a method that requirements arguments?

**Specify the name of the parameter in the method call in the parenthesis**

7. How do you write a method, that is, specify the method deﬁnition, that requires a parameter list?

Private void Dog (int v, string x);

**The method** signature consists of **the method** name and the **parameter list**. **Parameter List** − The **list** of parameters, it is the type, order, and number of parameters of **a method**. These are optional, **method** may contain zero parameters.

8. How do you a parameter specify as optional when deﬁning a method?

**Provide a default value for the parameter in the method declaration.**

**Private void walk-dog (Dog A, Dog B)**

**walk-dog (Rex, King)**

**If the desire to pass named arguments not in order you can use this example: walk\_dog(B: King, A: Rex)**

9. How do you pass an argument to a method as a named parameter?

You have to specify the name of the parameter.

10. How does the compiler resolve an ambiguity between named arguments and optional parameters?

It will give you an error.