# C# Programming Homework Homework 05

## Chapter 05, C# Step by Step

## Readings

Read chapter 5 in the *C# Step by Step* book.

## Discussion Questions

Answer the discussion questions in writing.

1. What is a *compound assignment operator*? How does it work?

2. List all the compound assignment operators.

3. List two ways to increment a numeric variable by 5. List two ways to decrement a numeric variable by 50.

4. How long does a *while* loop run?

5. What is an *iteratiion variable*? (Not in book)

6. What happens if you don't change the loop variable in the body of the while loop block?

7. How many parts does a *for* loop statement have? Can you omit any of them? Can you omit all of them? What happens if you omit all of them?

8. How do you guarantee that a loop runs at least once?

9. What does the *break* statement do?

10. What does the *continue* statement do?

11. (Thought question) Can you think of any reason why you would want to have an infinite loop? An "infinite loop" is a loop without an update variable that in effect runs forever. As you will see, these kinds of loops are written intentionally to perform various kinds of tasks.