

# Homework 05, ISTA-220

## Chapter 05, C# Step by Step

### 1 Homework

#### 1.1 Readings

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

#### 1.2 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 *iteration 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.