Homework 05, ISTA-220

Chapter 05, C# Step by Step

1 Homework

1.1 Readings

Read chapter 5, pages 107 – 125 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?

**Combining any arithmetic operator with the assignment operator. It also shares the same precedence and right associativity as the simple assignment operator (=). (p.108)**

2. List all the compound assignment operators.

**\*= number; /= number; %= number (remainder); += number; -= number;**

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

a = a +5

4. How long does a while loop run?

**For as long as some condition is true. (p.108)**

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

**The program keeps running (infinite loop). (p. 109)**

6. How many parts does a for loop statement have?  **3- Initialization, Termination condition, variable update,**

Can you omit any of them? **Yes, any part of it**

Can you omit all of them? **No, must be one (p.115)**

What happens if you omit all of them? **Defaults to true and runs forever.**

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

**The loop must be a while loop due to it not being evaluated until the end.**

8. What does the break statement do?

**Used to jump out of switch statement or the body of an iteration statement.**

9. What does the continue statement do?

**Causes the program to perform the next iteration of the loop immediately (after reevaluating the Boolean expression).**