**CS 131 Exercises**

**C#—A Beginner’s Guide**

**Pat McGee**

ISBN: 978-0-07-183581-7

**CS 131 Exercises - Chapter 3 : Numeric Operators and Routines, Random**

**Exercise 1.** Create a new C# Console project called Expressions.

* Declare an integer variable named ‘a’ initialized to the value 100, and another integer variable named ‘b’ initialized to the value 20.
* Output the result of the expression “a plus b” using the following code example:

Console.WriteLine("{0} + {1} = {2}", a, b, a + b);

* Create four more WriteLine statements using the following numeric operators: subtract, multiply, divide, remainder. Change the operator in both the string and the expression.

**Exercise 2.** Create a new C# Console project called BinaryOperators.

* Declare an integer variable named ‘a’ initialized to the value 100, and another integer variable named ‘b’ initialized to the value 20.
* Output the value of ‘a’ following the expression “assign ‘a plus b’ to a” using the following code example:

a += b;

Console.WriteLine("The value of a is now:{0}", a);

* Create four more binary operator statements that modify variable ‘a’ using the following numeric operators: subtract, multiply, divide, remainder.
* Repeat the WriteLine statement after each change to display the new value of variable ‘a’.

**Exercise 3.** Create a new C# Console project called Random.

* Repeat the steps in Exercise 1, replacing the hard coded values 20 and 100 with two randomly generated values between 1 and 100.
* Run the program multiple times and verify the variable values are randomly generated.