**Name: Session:**

**Programming II**

**Lab Exercise 2.8.2024**

**Complete the following programs. When you have completed each program, submit a copy of your documented source code. Your documentation should include at a minimum name, assignment number (i.e. Lab Exercise 2.8.2024 Problem 1) and a sample output of your program run.**

1. Create a console-based program whose Main() method holds two integer variables. Assign values to the variables. Within the class, create two methods, sumNumbers() and differenceNumbers(), that compute the sum of and difference between the values of the two variables, respectively. Each method should perform the computation and display the results. In turn, call each of the two methods from Main(), passing the values of the two integer variables. Save the program as Numbers.cs.
2. Add a method named product() to the Numbers class. This method should compute the multiplication product of two integers, but not display the answer. Instead, it should return the answer to the calling Main() method, which displays the answer. Save the program as Numbers2.cs.
3. Create a console-based application whose Main() method holds an integer variable named inches, and prompt the user for a value. Create a method to which you pass inches. The method converts the value to feet and inches and displays the result. For example, 67 inches is 5 feet 7 inches. Save the program as InchesToFeet.cs.
4. Add a second method to the InchesToFeet class. This method displays a passed argument as yards, feet, and inches. For example, 67 inches is 1 yard, 2 feet, and 7 inches. Add a statement to the Main() method so that after it calls the method to convert inches to feet and inches, it passes the same variable to the new method to convert the same value to yards, feet, and inches and then displays the result. Save the program as InchesToYards.cs.