**Name: Session:**

**Programming II**

**Lab Exercise 2.8.2023**

**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 2.8.2023 Problem 1) and a sample output of your program run.**

1. Create a console-based program whose Main() method contains six character variables that hold your first, middle, and last initials, and a friend’s first, middle, and last initials, respectively. Create a method named displayMonogram() to which you pass three initials. The method displays the initials surrounded by two asterisks on each side and with periods following each initial, as shown in the following example:

\*\* J. M. F. \*\*

Within the Main() method, call the displayMonogram() method twice—once using your initials and once using your friend’s initials. Save the program as Monogram.cs.

1. Create a console-based application whose Main() method asks the user to input an integer and then calls a method named multiplicationTable(), which displays the results of multiplying the integer by each of the numbers 1 through 12. Save the file as Multiplication.cs.
2. Create a console-based program named Commission. Its Main() method calls two other methods. The first called method should ask a salesperson for the dollar value of daily sales and return the entered value to the Main() method. (Assume all sales are in whole dollars). The second called method should calculate the salesperson’s commission based on the rates in the accompanying table.

|  |  |
| --- | --- |
| Sales | Commission |
| 0–999 | 3% |
| 1000–2999 | 4% |
| 3000–up | 5% |

The dollar value of the calculated commission should be returned to the Main() method, which then displays the value. Save the file as Commission.cs.

1. Create a console-based program whose Main() method prompts the user for an integer value and, in turn, passes the value to a method that squares the number and to a method that cubes the number. The cube() method should call the square() method. The Main() method displays the results returned from each of the other methods. Save the program as Exponent.cs.