**Name: Session:**

**Programming II**

**Lab Exercise 2.1.2024**

**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 2.1.2024 Problem 1) and a sample output of your program run.**

1. Write a console-based application that allows the user to enter any number of integer values continuously (in any order) until the user enters 999. Display the sum of the values entered, not including 999. Save the file as Sum.cs.
2. Write a console-based application that asks the user to type a vowel from the keyboard. If the character entered is a vowel, display “OK”; if it is not a vowel, display an error message. Be sure to allow both uppercase and lowercase vowels. The program continues until the user types ‘!’. Save the file as GetVowel.cs.
3. Write a console-based application that prompts a user for an hourly pay rate. While the user enters values less than $5.65 or greater than $49.99, continue to prompt the user. Before the program ends, display the valid pay rate. Save the program as EnsureValidPayRateLoop.cs.
4. Three salespeople work at Sunshine Hot Tubs—Andrea, Brittany, and Eric. Write a console-based application that prompts the user for a salesperson’s initial (‘A’, ‘B’, or ‘E’). While the user does not type ‘Z’, continue by prompting for the amount of a sale the salesperson made. Calculate the salesperson’s commission as 10% of the sale amount, and add the commission to a running total for that salesperson. After the user types ‘Z’ for an initial, display each salesperson’s total commission earned. Save the file as TubSales.cs.