**Name: Session:**

**Programming II**

**Lab Exercise 1.21.2025**

1. You have been asked to create an application for a carpet sales and installation business. The application should allow the user to enter the length and width of a room and calculate the room’s area in square feet. (Note: area = length x width).
2. A retail store gives each of its customers a maximum amount of credit. A customer’s available credit is determined by subtracting the amount of credit used from the maximum amount of credit. Create an application that will assign a maximum credit of $1000 to a customer and allow the user to enter the amount of their purchase. It should then report the remaining credit balance.
3. Create an application that allows the user to enter an amount of purchase. The application should then calculate the sales tax and report the tax and the grand total of the purchase.

**When you have completed these three applications, submit your source code and a sample output of your application.**