Pseudocode for Project 1: Carpet Company Billing System

1. First, declare constants that will be used in the program:
2. Second, Before the Input section, declare all variables as follows:
3. Third, in the input section
4. Output the message, “Enter Customer name”, and save the input in Customer\_Name
5. Output the message, “Enter the Room’s Length”, and save the input in Room\_Length
6. Output the message, “Enter the Room’s width”, and save the input in Room\_Width
7. Output the message, “Enter the Carpet Price per Square Foot”, and save the input in Carpet\_Cost\_Per\_Sqft
8. Output the message, “Enter Customer Discount”, and save the input in Cu Customer\_Discount
9. In the processing section compute the following calculations:
   1. Carpet\_Size = Room\_Length\* Room\_Width- and make sure to round up to the next whole number.
   2. Carpet\_Cost = Carpet\_Size \* Carpet\_Cost\_Per\_Sqft, to calculate the cost of the carpet
   3. Total\_Labor\_Cost = Carpet\_Size \* LABOR\_COST\_PER\_SQFT, to calculate the cost of labor.
   4. Installed\_Price = Carpet\_Cost + Total\_Labor\_Cost, to calculate the total cost of carpet and instillation.
   5. Discount = Installed\_Price \* (Customer\_Discount/100), so that Customer\_Discount is in the decimal form of a percentage
   6. Subtotal = Installed\_Price - Discount to calculate the total before taxes
   7. Taxes = TAX\_RATE \* Subtotal, to calculate the taxes
   8. Total\_Cost = Subtotal + Taxes , to calculate the total cost
10. Lastly in the output section,
11. First format the output to be decimal point and only two decimal places
12. Then output the following:

-Note: make sure to line up the start of the words on the left, and the start of the values on the right

1. Output the text “Welcome to Passaic County Carpeting Company”, aligned all the way on the left.
2. Skip a line, and Output the text “Customer information:”, aligned all the way on the left.
3. On the next line, indented one slot, output the text “Customer Name:” next skip 5 spaces and output the name saved in Customer\_Name
4. On the next line, indented one slot, output the text “Carpet Size:” next skip 5 spaces and output the size saved in Carpet\_Size
5. Skip a line, and Output the text “Charged:”, aligned all the way on the left.
6. On the next line, indented one slot, output the text “Carpet Cost @:” followed by the value saved in \* Carpet\_Cost\_Per\_Sqft, followed by the text “ Sq Ft ”.
   1. On the same line indent \_\_ spaces and output the value saved in Carpet\_Cost
7. On the next line, indented one slot, output the text “Labor Cost @:” followed by the value saved in \* LABOR\_COST\_PER\_SQFT, followed by the text “ Sq Ft ”.
   1. On the same line indent \_\_ spaces and output the value saved in Total\_Labor\_Cost
8. Skip a line, indent one slot and Output the text “Installed Price:”.
   1. On the same line indent \_\_ spaces and output the value saved in Installed\_Price
9. On the next line, indented one slot, output the text “Discount:”
   1. On the same line indent \_\_ spaces and output the value saved in Discount
10. On the next line indented \_ Spaces Output “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_” to enhance the subtotal calculation

1. Skip a line, indent one slot and Output the text “SubTotal:”.
   1. On the same line indent \_\_ spaces and output the value saved in SubTotal
2. Skip a line, indent one slot and Output the text “Taxes:”
   1. On the same line indent \_\_ spaces and output the value saved in Taxes.
3. Skip a line, indent one slot and Output the text “Total Cost:”.
   1. On the same line indent \_\_ spaces and output the value saved in Total\_cost
4. Skip a line, aligned on the left, Output the customer’s name followed by the text “Thank You for Using PCCC Carpeting