CISC 1115 Homework 8

This homework will give you practice writing and calling both void and value methods.

Write a Java program that gives an estimate to a customer on how much carpet would cost for a room. This program consists of:

 A method printMenu() that welcomes the user to the store and displays the menu for the following carpet types to the screen:

Welcome to the carpet store! === Carpet Types ===

Nylon: \$5 per square foot
 Polyester: \$4 per square foot
 Polypropylene: \$3 per square foot

4. Acrylic: \$6 per square foot5. Wool: \$12 per square foot

• A **main** method that calls the printMenu() method to display the menu and then prompts the user for their selection and their room dimensions and determines the cost by calling the **calculateCost()** method and then neatly prints everything at the end by calling **printReceipt()**.

Enter the number of the type of carpet would you like: 1

Great! Please enter the dimensions of your room (in ft):

Enter length: 10 Enter width: 12

- A method calculateCost() that receives the user's selection and the dimensions
 of their room and calculates and returns the cost.
- A method printReceipt() that prints the following information (carpet type, room dimensions, total cost, etc.) directly to an output file "receipt.txt"

=== Receipt === You chose option:

1. Nylon: \$20 per square ft

Room dimensions: 10.0 x 12.0

Area: 120.0 square ft

Total cost: \$600.00

Thank you for shopping at the Carpet Store!