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: \$5 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!