

CSC 231 - Assignment #2

Write an application that calculates the price of carpeting for rectangular rooms. For this, first create a class named RoomDimension that has two fields: one for the length of the room and one for the width. The class should have a method that returns the area of the room.

Then, create a class named RoomCarpet that has a RoomDimension object as a field, and also a field for the cost of the carpet per square foot. The class should have a method that returns the total cost of the carpet.

You may add constructors and more methods to the above classes as needed. Demonstrate the classes in a program that asks the user to enter the dimensions of a room and the cost of the carpet per square foot. Display the total cost of the carpet (total cost = area of the room * cost of the carpet per square foot).

(Due: Friday, 02/17/2023)