Maximum points: 10 Due: 1:00 pm on Feb 17th, 2025

Assignment 1: Calculating Unit Price and Total Cost

Problem Description:

The program prompts the consumer to enter the weight and price of package 1, then does the same for package 2, and displays the results to indicate which package has a worse unit price of the same material. Later, the program asks consumers which product they would like to order (package 1 or 2) and how many of it. Depending on the consumer's order, the program displays the total cost. It is assumed that the weight of all packages is measured in kg. The program should check to be sure that the inputs of weight, price, and number of packages to order are all positive values. If not, the program ends after telling the consumer that inputs are invalid.

Sample Run:

Please provide the information about the packages below.

Weight and price of package 1:

1.5 10.5

Weight and price of package 2:

2.5 15

Package 1 has a worse unit price!

Which package would you like to order?

2

How many packages would you like to order?

3

The total cost of 4 packages will be 45.0 euros.

Deliverables:

Your .java file including:

1. A sample run at the top where the consumer is trying to decide to order either a 0.9 kg package of coffee for €4.5 (package 1) or a 0.33 kg package of coffee for €1.75 (package 2). The eleven lines of the output (similar to those shown in the sample run above) should be inserted as a comment at the top of the Java code (before the import and class statements).

Grading:

Item	**Points**
Correct data types and convenient variable naming	1
Correct output format and sample run at the top	2
Appropriate comments in the code	1
Correctly reading the input from console	2
Correctly calculating and comparing unit prices	2
Correctly calculating the total cost	2
Sum	**10**