IBM Cloud Garage Code Exercise

WHAT YOU WILL BE EVALUATED ON:

(1) ability to follow these instructions;
(2) correct output;
(3) simplicity;
(4) readability;
(5) unit testing;
(6) separation of concerns;
(7) the 4 rules of simple design;
(8) a distribution or link to a source control repository with a README.md of
   explicit instructions detailing how to build, deploy and run your exercise; and
(9) the timeliness of the completed exercise.

GOAL:

In the language of your choice, parse the following set of three input files

space:

1 book 12.49
1 music CD 14.99
1 chocolate bar 0.85

pipe:

Imported | 1 bottle of perfume | 47.50
Imported | 1 box of chocolates | 10.00

comma:

1 bottle of perfume, 27.99, imported
1 bottle of perfume, 18.99
1 packet of headache pills, 9.75
1 box of chocolates, 11.25, imported

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apply the following rules:

SALES TAXES

Basic sales tax is applicable at a rate of 10% on all goods, except books, food, and medical products that are exempt. Import duty is an additional sales tax applicable on all imported goods at a rate of 5%, with no exemptions.

When I purchase items I receive a receipt which lists the name of all the items and their price (including tax), finishing with the total cost of the items, and the total amounts of sales taxes paid. The rounding rules for sales tax are that for a tax rate of n%, a shelf price of p contains (np/100 rounded up to the nearest 0.05) amount of sales tax.

and produce the following output:

Output 1:
1 book: 12.49
1 chocolate bar: 0.85
1 music CD: 16.49

Sales Taxes: 1.50
Total: 29.83

Output 2:
1 imported box of chocolates: 10.50
1 imported bottle of perfume: 54.65

Sales Taxes: 7.65
Total: 65.15

Output 3:
1 packet of headache pills: 9.75
1 bottle of perfume: 20.89
1 imported box of chocolates: 11.85
1 imported bottle of perfume: 32.19

Sales Taxes: 6.70
Total: 74.68