## **DEALERON**

## **PROBLEM TWO**

## **Sales Taxess:**

Brief explanation of design:

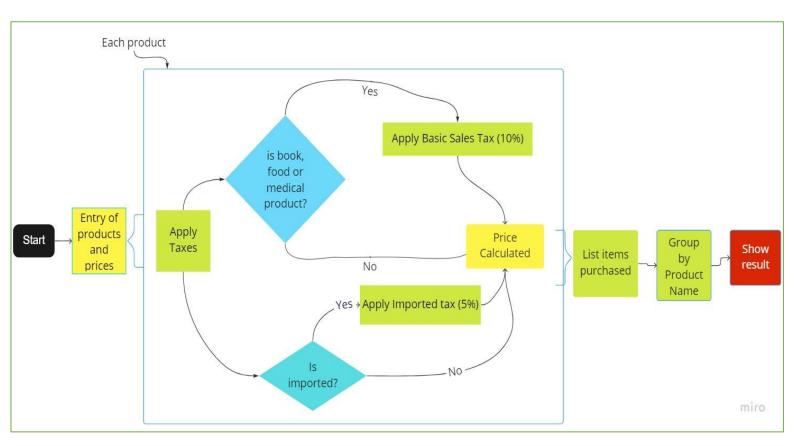
The requirement was analyzed by designing the different flows for the cases of taxes by type of product (book, food, medical product: 10%) and for the cases of imported products (5%).

Once the taxes were obtained, the respective roundings were made to the nearest 5 cents.

The resulting prices for each product are calculated.

The groupings of the products were made to show them according to the expected result in the PDF.

Visual Studio, C#, Console project, Linq queries, generic collections, conditionals, groupings, etc. were used.



Below are the tests performed and the final result. These show the expected result.



## Input 1:

#### **INPUT 1**

1 Book at 12.49 1 Book at 12.49 1 Music CD at 14.99

1 Chocolate bar at 0.85

#### **OUTPUT 1**

Book: 24.98 (2 @ 12.49)

Music CD: 16.49 Chocolate bar: 0.85 Sales Taxes: 1.50

Total: 42.32

C:\Personal\Jobs\number8\2\Sales-Exercise\bin\Debug\net5.0\Sales-Exercise.exe

```
Enter product **NAME** : Book
Enter product **PRICE** : 12.49
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Book
Enter product **PRICE** : 12.49
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Music CD
Enter product **PRICE** : 14.99
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Chocolate bar
Enter product **PRICE** : 0.85
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
 ****** Output ******
Book: 24.98 (2 @ 12.49)
Music CD: 16.49
Chocolate bar: 0.85
Sales Taxes: 1.50
Total: 42.32
```



## Input 2:

#### INPUT 2

- 1 Imported box of chocolates at 10.00
- 1 Imported bottle of perfume at 47.50

#### **OUTPUT 2**

Imported box of chocolates: 10.50
Imported bottle of perfume: 54.65

Sales Taxes: 7.65

Total: 65.15

C:\Personal\Jobs\number8\2\Sales-Exercise\bin\Debug\net5.0\Sales-Exercise.exe

```
Enter product **NAME** : Imported box of chocolates
Enter product **PRICE** : 10

Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Imported bottle of perfume
Enter product **PRICE** : 47.5

Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
f

******** Output *******

Imported box of chocolates: 10.5
Imported bottle of perfume: 54.65
Sales Taxes: 7.65
Total: 65.15
```



## Input 3:

#### INPUT 3

1 Imported bottle of perfume at 27.99

1 Bottle of perfume at 18.99

1 Packet of headache pills at 9.75

1 Imported box of chocolates at 11.25

1 Imported box of chocolates at 11.25

#### **OUTPUT 3**

Imported bottle of perfume: 32.19

Bottle of perfume: 20.89

Packet of headache pills: 9.75

Imported box of chocolates: 23.70 (2 @ 11.85)

Sales Taxes: 7.30

Total: 86.53

C:\Personal\Jobs\number8\2\Sales-Exercise\bin\Debug\net5.0\Sales-Exercise.exe

```
Enter product **NAME** : Imported bottle of perfume
Enter product **PRICE** : 27.99
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Bottle of perfume
Enter product **PRICE** : 18.99
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Packet of headache pills
Enter product **PRICE** : 9.75
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Imported box of chocolates
Enter product **PRICE** : 11.25
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
Enter product **NAME** : Imported box of chocolates
Enter product **PRICE** : 11.25
Press [ENTER] to Add New Product, or [Other key] to Show Totals Invoices,
 ****** Output ******
Imported bottle of perfume: 32.19
Bottle of perfume: 20.89
Packet of headache pills: 9.75
Imported box of chocolates: 23.70 (2 @ 11.85)
Sales Taxes: 7.30
Total: 86.53
```

# **DEALERON**

Task Done!