# Code Sample

We’d like to get a sense of your programming style and abilities by providing you the opportunity to showcase your skills. We’ve chosen a simple software problem for you to solve.

It is expected that the completed project can be copied to a development machine with Visual Studio installed and compiled and run without modification.   If additional steps are required to compile and run the solution, instructions must be provided.

Use C#.Net to code your solution.  The solution must be runnable using Visual Studio and should include all dependencies needed to execute.

A console application is sufficient, as we are most interested in seeing your OOP and design skills. You are not expected to produce production-quality code. The goal is to provide a basic design in working code that meets the requirements using **good Object Oriented Design principles**.

Good luck!

# 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. Write an application that prints out the receipt details for these shopping baskets.

## INPUT

 Input 1:

1 book at 12.49

1 music CD at 14.99

1 chocolate bar at 0.85

 Input 2:

1 imported box of chocolates at 10.00

1 imported bottle of perfume at 47.50

 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 box of imported chocolates at 11.25

## 

## OUTPUT

 Output 1:

1 book: 12.49

1 music CD: 16.49

1 chocolate bar: 0.85

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 imported bottle of perfume: 32.19

1 bottle of perfume: 20.89

1 packet of headache pills: 9.75

1 imported box of chocolates: 11.85

Sales Taxes: 6.70

Total: 74.68