Below is a code assignment we would like the you to complete.

1. Include this problem statement with the solution.

2. Use C# for the solution.

3. Send us the visual studio solution with instructions on how to run the program, and input data

4. This is a stage for you to showcase your skills and strengths, so keep that in mind when coming up with the solution.

Problem Statement :

At HH Global a "job" is a group of print items. For example, a job can be a run of business cards, envelopes, and letterhead together.

Some items qualify as being sales tax free, whereas, by default, others are not. Sales tax is 7%.

HH Global also applies a margin, which is the percentage above printing cost that is charged to the customer.

For example, an item that costs $100 to print that has a margin of 11% will cost:

item: $100 -> $7 sales tax = $107

job: $100 -> $11 margin

total: $100 + $7 + $11 = $118

The base margin is 11% for all jobs this problem. Some jobs have an "extra margin" of 5%. These jobs that are flagged as extra margin have an additional 5% margin (16% total) applied.

The final cost is rounded to the nearest even cent.

Individual items are rounded to the nearest cent.

Develop a web application (web service) that exposes API to accept jobs in JSON format, calculates the total charge to a customer for a job and returns result in JSON.  
(Bonus: try to pack application it to a docker container to be deployed into Kubernetes cluster with a Helm 3 Chart. Note that cluster nodes are running under Ubuntu 18.04)

Here are examples of input data and output data for your reference:

Job 1:

extra-margin

envelopes 520.00

letterhead 1983.37 exempt

should output:

envelopes: $556.40

letterhead: $1983.37

total: $2940.30

Job 2:

t-shirts 294.04

output:

t-shirts: $314.62

total: $346.96

Job 3:

extra-margin

frisbees 19385.38 exempt

yo-yos 1829 exempt

output:

frisbees: $19385.38

yo-yos: $1829.00

total: $24608.68

Thank You.