

# Python PCEP Course - Final Project

## Behind-The-Door Break Room Cafe

Work on this project in teams of 2 or 3. Using pair programming and cowboy coding. Create a github repo for hosting this final project. And prepare to present your work as a team on the last day of class. **Your final project deliverable must be a working python program that has no errors and does error handling for unexpected user input.**

Ever wonder what actually happens during lunch? There's actually a Behind-The-Door Break Room Cafe where all the instructors show off what they brought in for lunch. Create an invoice that would take orders from our makeshift *Behind-The-Door Break Room Cafe*.

### Requirements:

- Create a dictionary with 6 food items that can be ordered from the Cafe. Items will have the following properties:
  - Name
  - Price
  - Quantity
  - Taxable (TRUE or FALSE)
- Implement a loop functionality that allows users to enter in as many items as they want to order until the user enters "no" to stop.
- Prompt the user for their state. Based on the state they enter, charge them the following sales tax rates:
  - MD - 6.00%
  - DC - 5.30%
  - VA - 5.75%
  - Other states - 5.00%
- Note: Only calculate the sales tax if *TAXABLE* is set to *TRUE* for that item.
- Calculate the cost for each item (price \* quantity)
- Calculate the sub-total (the sum of each item's cost)

- Calculate the sales tax (only if taxable is TRUE for the item)
- Calculate the total amount (subtotal + sales tax)
- Format all decimals to two decimal places

## Expected Output

Enter your name: Dave Wolf  
Enter your address: 123 Only street, Only MD  
Enter the date: 12/09/18  
Enter your account number: 123

Enter item name: salad  
Price: 8.50  
Quantity: 6  
Taxable (true or false): true  
Enter your sate: DC  
Add another item: y

Enter item name: burger  
Price: 9.95  
Quantity: 5  
Taxable (true or false): false  
Add another item: y

Enter item name: cola  
Price: 3.45  
Quantity: 8  
Taxable (true or false): true  
Enter your sate: DC  
Add another item: y

Enter item name: honeybun  
Price: 12.75  
Quantity: 5  
Taxable (true or false): true  
Enter your sate: DC  
Add another item: n

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Customer name: Dave Wolf  
Address: 123 Only street, Only MD  
Date: 12/09/18  
Account number: 123  
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Item Name	Quantity	Price	Cost	Taxable
salad	6	8.50	51.00	true
burger	5	9.95	49.75	false
cola	8	3.45	27.60	true
honeybun	5	12.75	63.75	true

Subtotal: \$192.10  
Sales Tax: \$7.54

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Total: \$199.64