

CS118 Programming Assignment

Cash Register

Prepare a cash register program that will compute the tax and final price for purchases. The program is being written only for two counties: Volusia, which has a 0.5% sales tax in addition to the state sales tax; and Seminole county which has only the state sales tax to collect. The state sales tax is 6.0%.

Before beginning “ringing up” the customer purchase, provide the program with a first letter of the county of purchase - V for Volusia and S for Seminole. The program should accept either uppercase or lowercase letters, but any other character should default in a Volusia purchase.

After a county is received, enter the price of the item purchased. If a negative price is entered, have the user reenter the price.

Except for food, all items are taxable. To distinguish, have the user provide an F (uppercase or lowercase) when the item being rung up is food; enter nothing (empty string) if the item is not a food. If anything other than an empty string or “F” is provided, have the user re-enter. If the user enters a price of 0, don't ask for this food designation.

Compute the county tax and state tax (separately) on non-food purchases, displaying the purchase and taxes. Keep all columns aligned regardless of the inputs. See the examples below.

```
Which county? (V / S): x
Price: 12.34
Enter F for Food, otherse just press ENTER: f
Food purchases:          $ 12.34
(No state or county taxes)
```

```
Which county? (V / S): v
Price: 12.34
Enter F for Food, otherse just press ENTER:
Non-food purchases:     $ 12.34
State sales tax:        $ 0.74
County sales tax:       $ 0.06
```

```
Which county? (V / S): S
Price: 12.34
Enter F for Food, otherse just press ENTER:
Non-food purchases:     $ 12.34
State sales tax:        $ 0.74
County sales tax:       $ 0.00
```