Python 3.7.0 Shell (top-left)

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
====== RESTART: F:\Intro to Programming\Chapter 2\CookingConversion.py ======
Enter amount of lemon juice (in cups):
2
Enter amount of water (in cups):
16
Enter amount of agave nectar (in cups):
2.5
How many servings does this make?
6

Lemonade ingredients - yields 6.0 servings
2.0 cup(s) lemon juice
16.0 cup(s) water
2.5 cup(s) agave nectar

How many servings would you like to make?
48

Lemonade ingredients - yields 48.0 servings
16.0 cup(s) lemon juice
128.0 cup(s) water
20.0 cup(s) agave nectar

Lemonade ingredients - yields 48.0 servings
1.0 gallon(s) lemon juice
8.0 gallon(s) water
1.25 gallon(s) agave nectar
>>>
```

CookingConversion.py (top-right)

```python
lemon_juice_cups = float(input("Enter amount of lemon juice (in cups):\n"))
water_cups = float(input("Enter amount of water (in cups):\n"))
agave_nectar_cups = float(input("Enter amount of agave nectar (in cups):\n"))
num_servings = float(input("How many servings does this make?\n"))

one_lemon_cups = lemon_juice_cups / num_servings
one_water_cups = water_cups / num_servings
one_agave_cups = agave_nectar_cups / num_servings

num_servings_recipe = [lemon_juice_cups, water_cups, agave_nectar_cups]
one_serving_recipe = [one_lemon_cups, one_water_cups, one_agave_cups]

print()
print("Lemonade ingredients - yields", num_servings, "servings")
print(num_servings_recipe[0], "cup(s) lemon juice")
print(num_servings_recipe[1], "cup(s) water")
print(num_servings_recipe[2], "cup(s) agave nectar")

print()
num_servings_make = float(input("How many servings would you like to make?\n"))

new_lemon_cups = one_serving_recipe[0] * num_servings_make
new_water_cups = one_serving_recipe[1] * num_servings_make
new_agave_cups = one_serving_recipe[2] * num_servings_make

print()
print("Lemonade ingredients - yields", num_servings_make, "servings")
print(new_lemon_cups, "cup(s) lemon juice")
print(new_water_cups, "cup(s) water")
print(new_agave_cups, "cup(s) agave nectar")

print()
print("Lemonade ingredients - yields", num_servings_make, "servings")
print(new_lemon_cups / 16, "gallon(s) lemon juice")
print(new_water_cups / 16, "gallon(s) water")
print(new_agave_cups / 16, "gallon(s) agave nectar")
```

Python 3.7.0 Shell (bottom-left)

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Inte
l)] on win32
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>>>
========= RESTART: F:/Intro to Programming/Chapter 2/FoodReceipt.py =========
Enter food item name:
hot dog
Enter item price:
2.0
Enter item quantity:
5

RECEIPT
5 hot dog @ $ 2.0 = $ 10.0
Total cost: $ 10.0


Enter second food item name:
ice cream
Enter item price:
2.5
Enter item quantity:
4

RECEIPT
5 hot dog @ $ 2.0 = $ 10.0
4 ice cream @ $ 2.5 = $ 10.0
Total cost: $ 20.0
15% gratuity: $ 3.0
Total with tip: $ 23.0
>>>
```

FoodReceipt.py (bottom-right)

```python
receipt = []
receipt_total = 0.0
item = ['', 0, 0]
item2 = ['', 0, 0]

name = input("Enter food item name:\n")
price = float(input("Enter item price:\n"))
quantity = int(input("Enter item quantity:\n"))

item[0] = name
item[1] = price
item[2] = quantity

receipt.append(item)

print("\nRECEIPT")
for thing in receipt:
    print(thing[2], thing[0], "@ $", thing[1], "= $", thing[2] * thing[1])
    receipt_total += thing[2] * thing[1]
print("Total cost: $", receipt_total)

print('\n')

name = input("Enter second food item name:\n")
price = float(input("Enter item price:\n"))
quantity = int(input("Enter item quantity:\n"))

item2[0] = name
item2[1] = price
item2[2] = quantity

receipt.append(item2)
receipt_total = 0.0

print("\nRECEIPT")
for thing in receipt:
    print(thing[2], thing[0], "@ $", thing[1], "= $", thing[2] * thing[1])
    receipt_total += thing[2] * thing[1]
print("Total cost: $", receipt_total)

receipt_tip = receipt_total * 0.15
receipt_total += receipt_tip

print("15% gratuity: $", receipt_tip)
print("Total with tip: $", receipt_total)
```

```
user_int = int(input('Enter integer (0 - 155):\n'))
user_float = float(input('Enter float:\n'))
user_char = input("Enter character:\n")
user_string = str(input('Enter string:\n'))

print(user_int, user_float, user_char, user_string)
print(user_string, user_char, user_float, user_int)

print(user_int, "converted to a character is", chr(user_int))
```

```
>>>
====== RESTART: F:/Intro to Programming/Chapter 2/VariableConversion.py ======
Enter integer (0 - 155):
99
Enter float:
3.77
Enter character:
z
Enter string:
Howdy
99 3.77 z Howdy
Howdy z 3.77 99
99 converted to a character is c
>>> |
```

Ln: 605   Col: 4

Ln: 11   Col: 0