

Joel Rivera

Et-574 F2F4L

Lab 1

9/4/24

6a.

```
lab1_1.py > ...
1  #printing my name in two lines
2  first = "Joel"
3  last= "Rivera"
4  print(first, '\n', last, sep='')
```

PROBLEMS OUTPUT TERMINAL ... Python + - [] [] ... ^ X

```
/usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_1.py"

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_1.py"
Joel
Rivera
joels-MacBook-Air:python hw joelle$
```

```
lab1_2.py
1 #printing the items list in one print statement
2 print('Items\t\tPrice\n_____\t_____\n\nApple\t\t$1.75\nBanana\t\t$2.25\nCherry\t\t$3.50\n_____\t_____\n\nTotal\t\t')
3
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python + v [] [] ... ^

joels-MacBook-Air:python hw joelle\$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_2.py"

Items	Price
Apple	\$1.75
Banana	\$2.25
Cherry	\$3.50

Total \$7.50

joels-MacBook-Air:python hw joelle\$

```
lab1_3.py
1 #printing Albert's quote in one print statement
2 print('Albert Einstein once said,\n"A person who never made a mistake\nnever tried anything new."')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python + v [] []

Apple	\$1.75
Banana	\$2.25
Cherry	\$3.50

Total \$7.50

joels-MacBook-Air:python hw joelle\$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_3.py"

Albert Einstein once said,
"A person who never made a mistake
never tried anything new."

joels-MacBook-Air:python hw joelle\$

```
lab1_4.py > ...
1 #calculating the price of an item after a 25% reduction
2 price=99.99
3 discountPercent=25
4 markdown=discountPercent/price*100
5 price=price-markdown
6 print(round(price,2))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python + v
Cherry $3.50
Total $7.50
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_3.py"
Albert Einstein once said,
"A person who never made a mistake
never tried anything new."
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_4.py"
74.99
joels-MacBook-Air:python hw joelle$
```

```
lab1_5.py > ...
1 #calculating the miles per gallon the car averaged between two fillings
2 gasBefore=23456
3 gasAfter=23678
4
5 distanceTraveled=gasAfter-gasBefore
6 gallonsUsed=10
7 milesPerGallon=distanceTraveled/gallonsUsed
8 print('%.3f Miles/Gallon' % milesPerGallon)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Total $7.50
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_3.py"
Albert Einstein once said,
"A person who never made a mistake
never tried anything new."
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_4.py"
74.99
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab1_5.py"
22.200 Miles/Gallon
joels-MacBook-Air:python hw joelle$
```

6b.

I faced two minor challenges while doing the lab. The first was trying to figure out how to round the answer in the 4th problem. I turned to stack overflow and it pointed me to round() function where I was then able to implement said function and round the answer. The second challenge was trying to get the 5th problem to display the answer in 3 decimal places. I was able to find the solution in the PowerPoint presentation and implement it into my code.