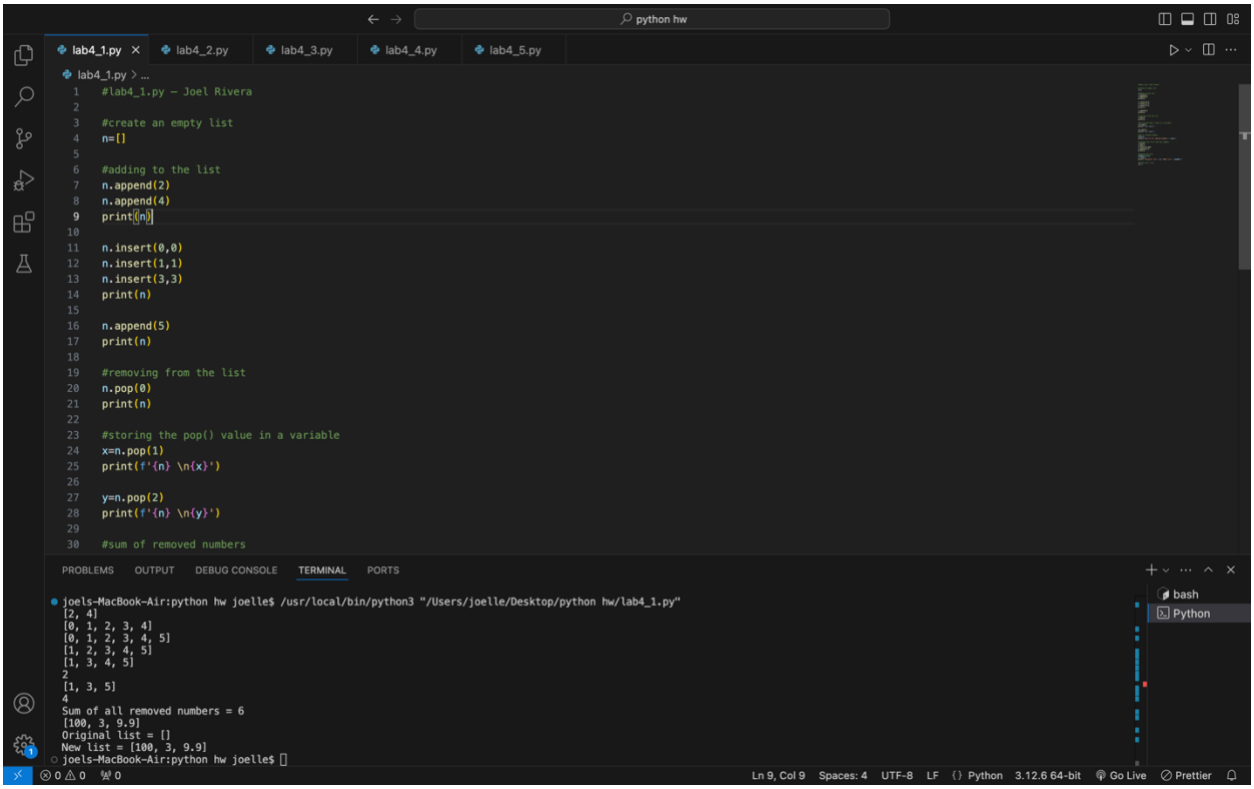
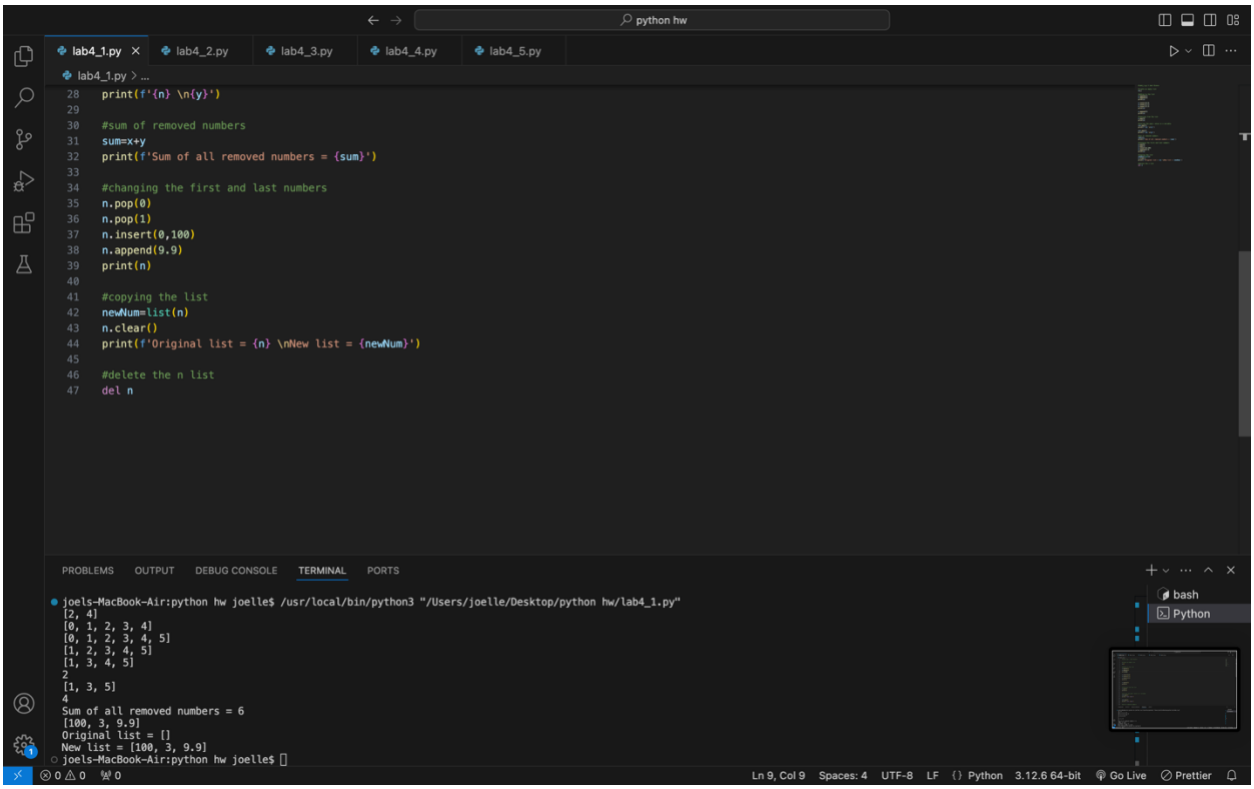
Joel Rivera

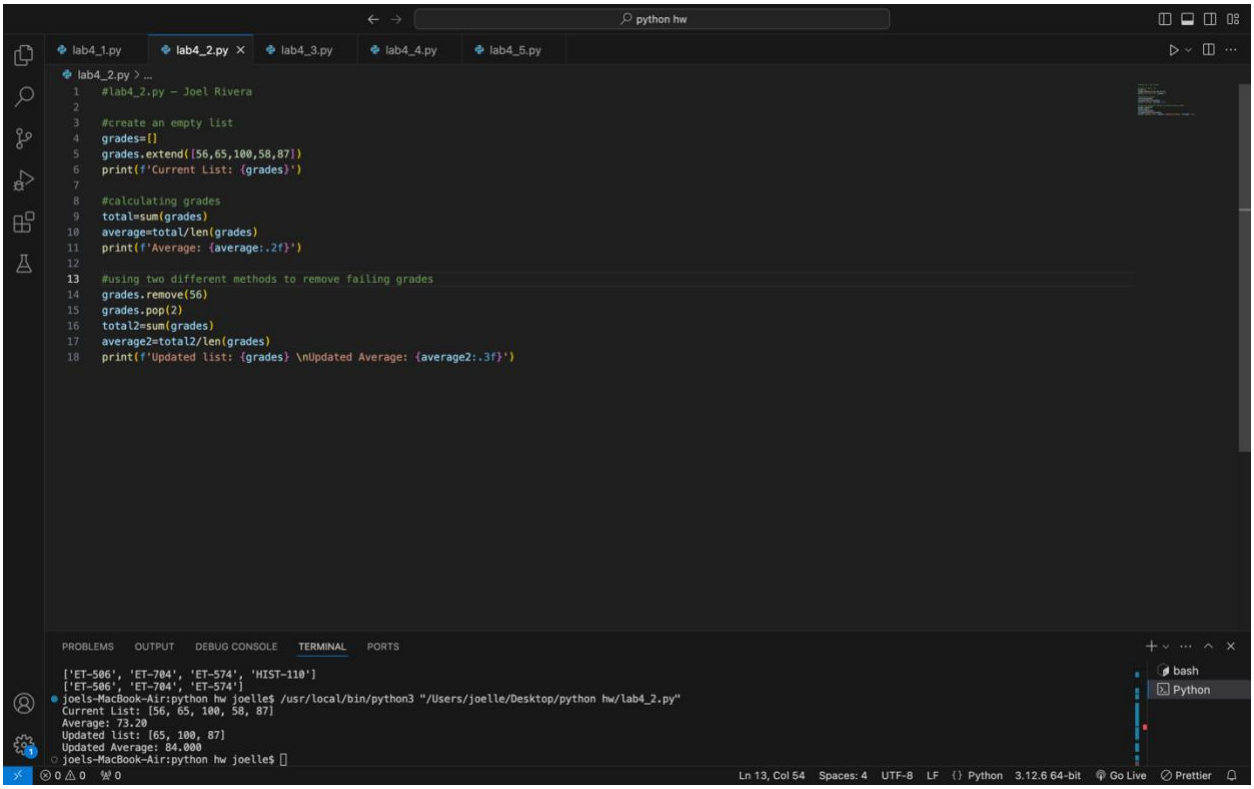
Et-574 F2F4L

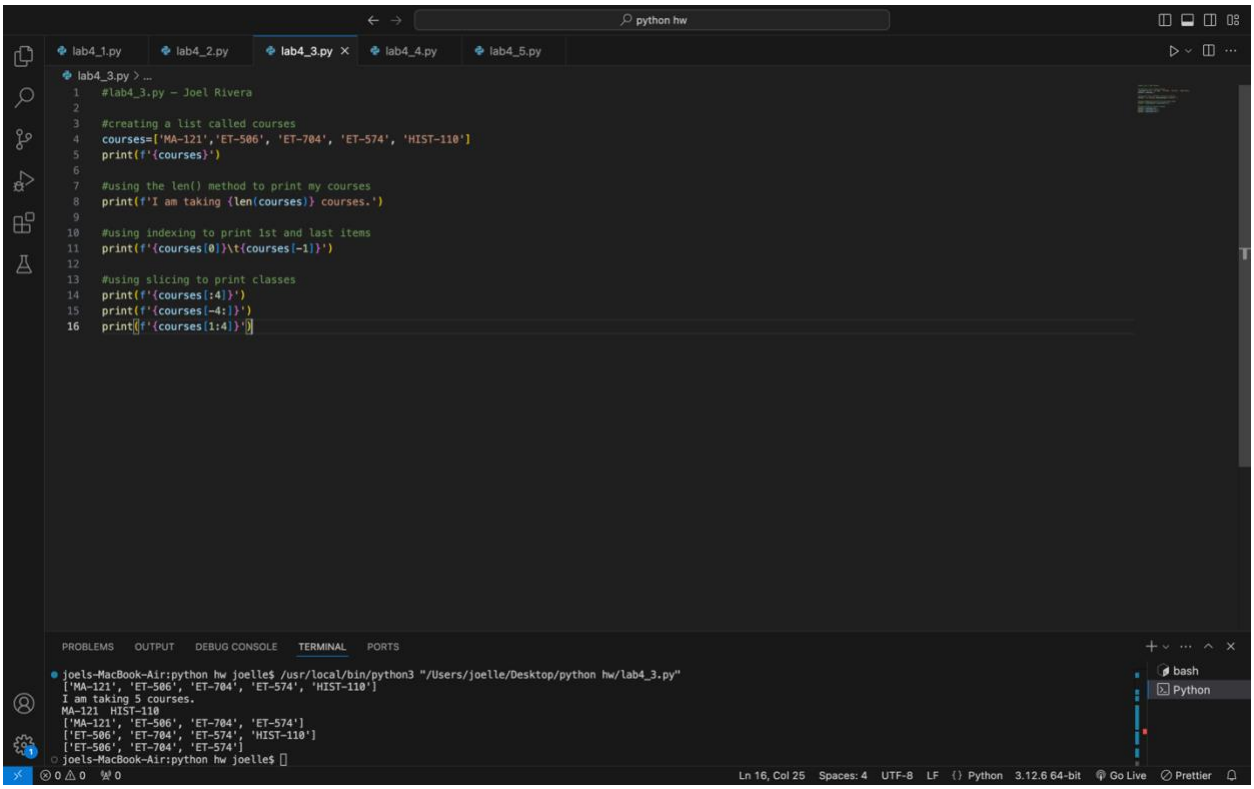
Lab 4

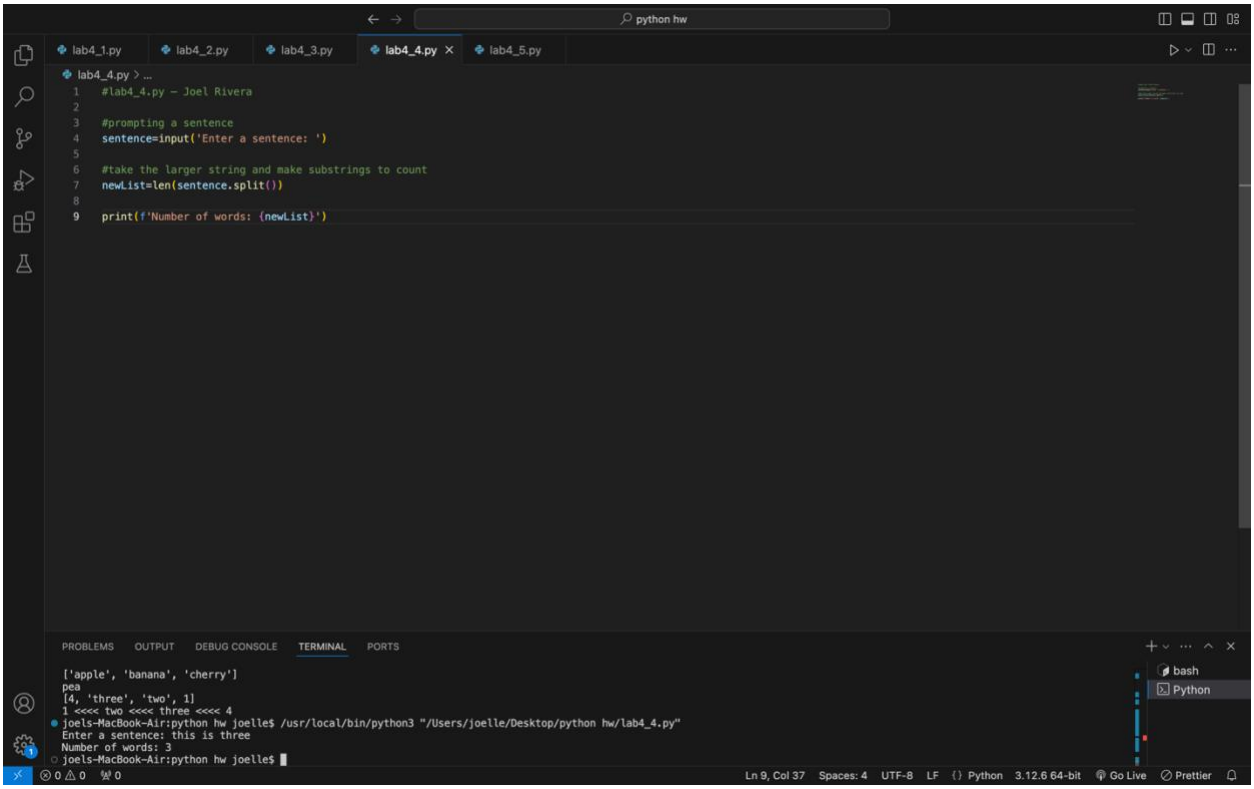
9/29/24

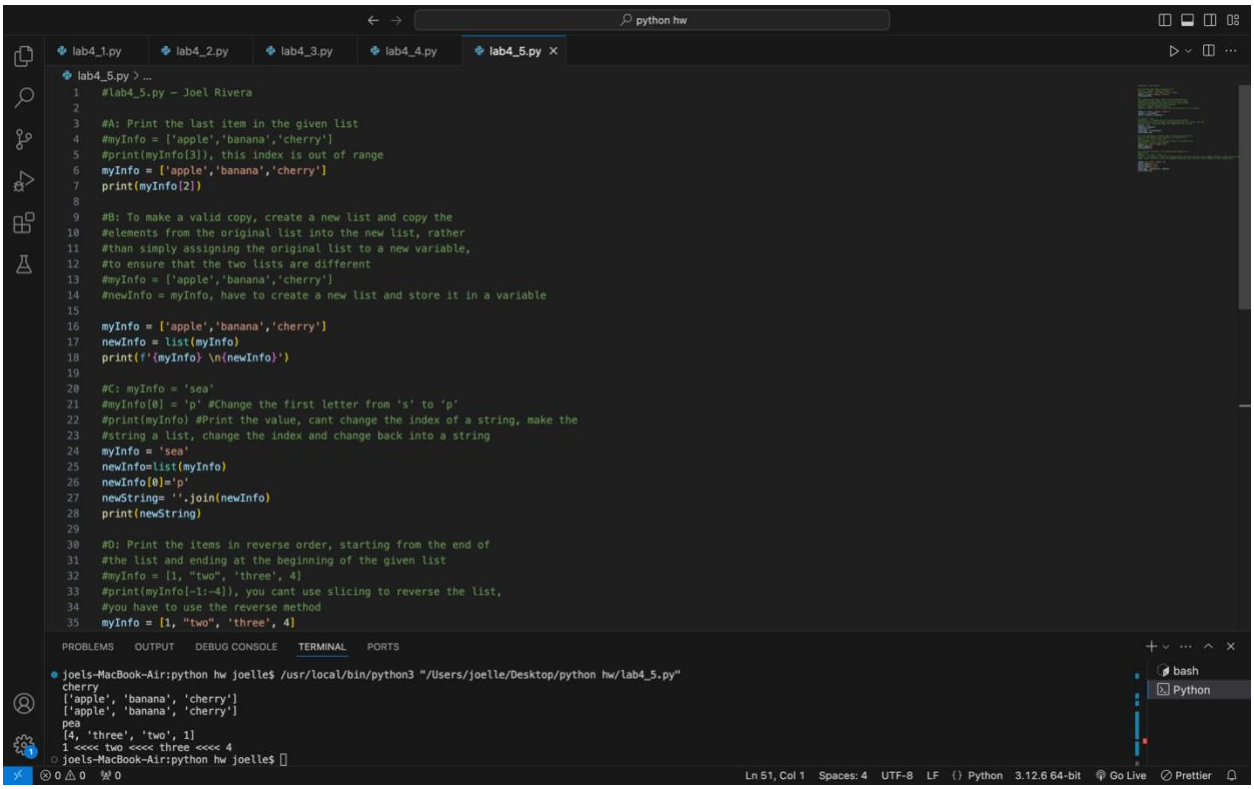


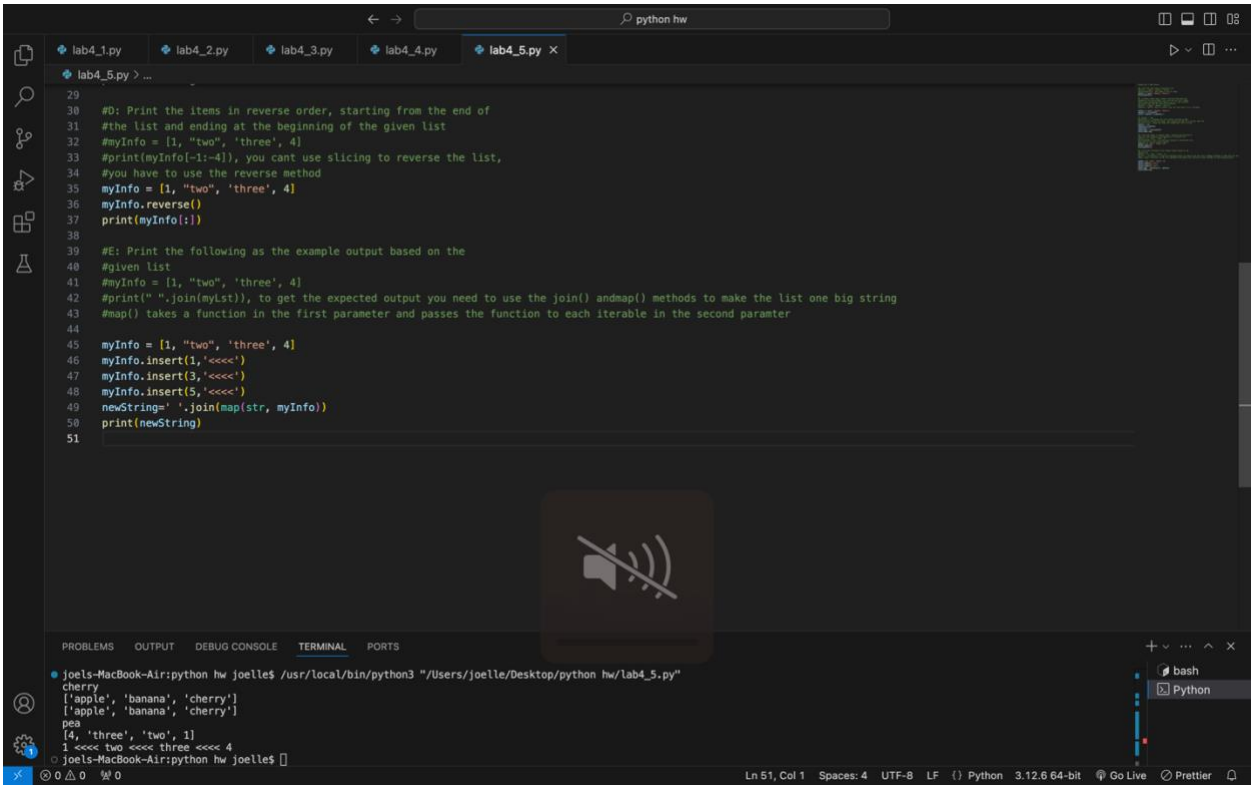

python hw
lab4_1.py
lab4_2.py
lab4_3.py
lab4_4.py
lab4_5.py
lab4_1.py > ...
28 print(f'{n} \n{y}')
29
30 #sum of removed numbers
31 sum=x+y
32 print(f'Sum of all removed numbers = {sum}')
33
34 #changing the first and last numbers
35 n.pop(0)
36 n.pop(1)
37 n.insert(0,100)
38 n.append(9.9)
39 print(n)
40
41 #copying the list
42 newNum=list(n)
43 n.clear()
44 print(f'Original list = {n} \nNew list = {newNum}')
45
46 #delete the n list
47 del n
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab4_1.py"
[2, 4]
[0, 1, 2, 3, 4]
[0, 1, 2, 3, 4, 5]
[1, 2, 3, 4, 5]
[1, 3, 4, 5]
2
[1, 3, 5]
4
Sum of all removed numbers = 6
[100, 3, 9.9]
Original list = []
New list = [100, 3, 9.9]
joels-MacBook-Air:python hw joelle$
bash
Python
Ln 9, Col 9
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier


python hw
lab4_1.py
lab4_2.py
lab4_3.py
lab4_4.py
lab4_5.py
lab4_2.py > ...
1 #lab4_2.py – Joel Rivera
2
3 #create an empty list
4 grades=[]
5 grades.extend([56,65,100,58,87])
6 print(f'Current List: {grades}')
7
8 #calculating grades
9 total=sum(grades)
10 average=total/len(grades)
11 print(f'Average: {average:.2f}')
12
13 #using two different methods to remove failing grades
14 grades.remove(56)
15 grades.pop(2)
16 total2=sum(grades)
17 average2=total2/len(grades)
18 print(f'Updated list: {grades} \nUpdated Average: {average2:.3f}')
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
['ET-506', 'ET-704', 'ET-574', 'HIST-110']
['ET-506', 'ET-704', 'ET-574']
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab4_2.py"
Current List: [56, 65, 100, 58, 87]
Average: 73.20
Updated list: [65, 100, 87]
Updated Average: 84.000
joels-MacBook-Air:python hw joelle$
bash
Python
Ln 13, Col 54
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier


python hw
lab4_1.py
lab4_2.py
lab4_3.py
lab4_4.py
lab4_5.py
lab4_3.py > ...
#lab4_3.py – Joel Rivera
#creating a list called courses
courses=['MA-121','ET-506', 'ET-704', 'ET-574', 'HIST-110']
print(f'{courses}')
#using the len() method to print my courses
print(f'I am taking {len(courses)} courses.')
#using indexing to print 1st and last items
print(f'{courses[0]}\t{courses[-1]}')
#using slicing to print classes
print(f'{courses[:4]}')
print(f'{courses[-4:]}')
print(f'{courses[1:4]}')
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab4_3.py"
['MA-121', 'ET-506', 'ET-704', 'ET-574', 'HIST-110']
I am taking 5 courses.
MA-121 HIST-110
['MA-121', 'ET-506', 'ET-704', 'ET-574']
['ET-506', 'ET-704', 'ET-574', 'HIST-110']
['ET-506', 'ET-704', 'ET-574']
joels-MacBook-Air:python hw joelle$
bash
Python
Ln 16, Col 25
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier


python hw
lab4_1.py
lab4_2.py
lab4_3.py
lab4_4.py
lab4_5.py
lab4_4.py > ...
#lab4_4.py – Joel Rivera
#prompting a sentence
sentence=input('Enter a sentence: ')
#take the larger string and make substrings to count
newList=len(sentence.split())
print(f'Number of words: {newList}')
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
['apple', 'banana', 'cherry']
pea
[4, 'three', 'two', 1]
1 <<<< two <<<< three <<<< 4
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab4_4.py"
Enter a sentence: this is three
Number of words: 3
joels-MacBook-Air:python hw joelle$
bash
Python
Ln 9, Col 37
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier





6. I faced two challenges from this weeks lab, the first being the 4th question. I couldn't figure out how to use the len() method to display the word count instead of character count

but then I realized I could split the input from being one string into multiple strings using the split() method and after splitting I could then use the len() method to count the amount of strings. The second challenge I faced was part E of the 5th question. I understood that I first needed to change all the items in the list into strings, then I understood I had to merge all the individual strings into one giant string but only after having used the insert() method when it was a list because that method doesn't work on strings. My issue was figuring out a way to take all the individual strings and merging them into a giant string in the output. I used w3 and there I found the map() method which allowed me to map a new list with all the iterables being strings, and combining that with the join() method allowed me to get the desired output.