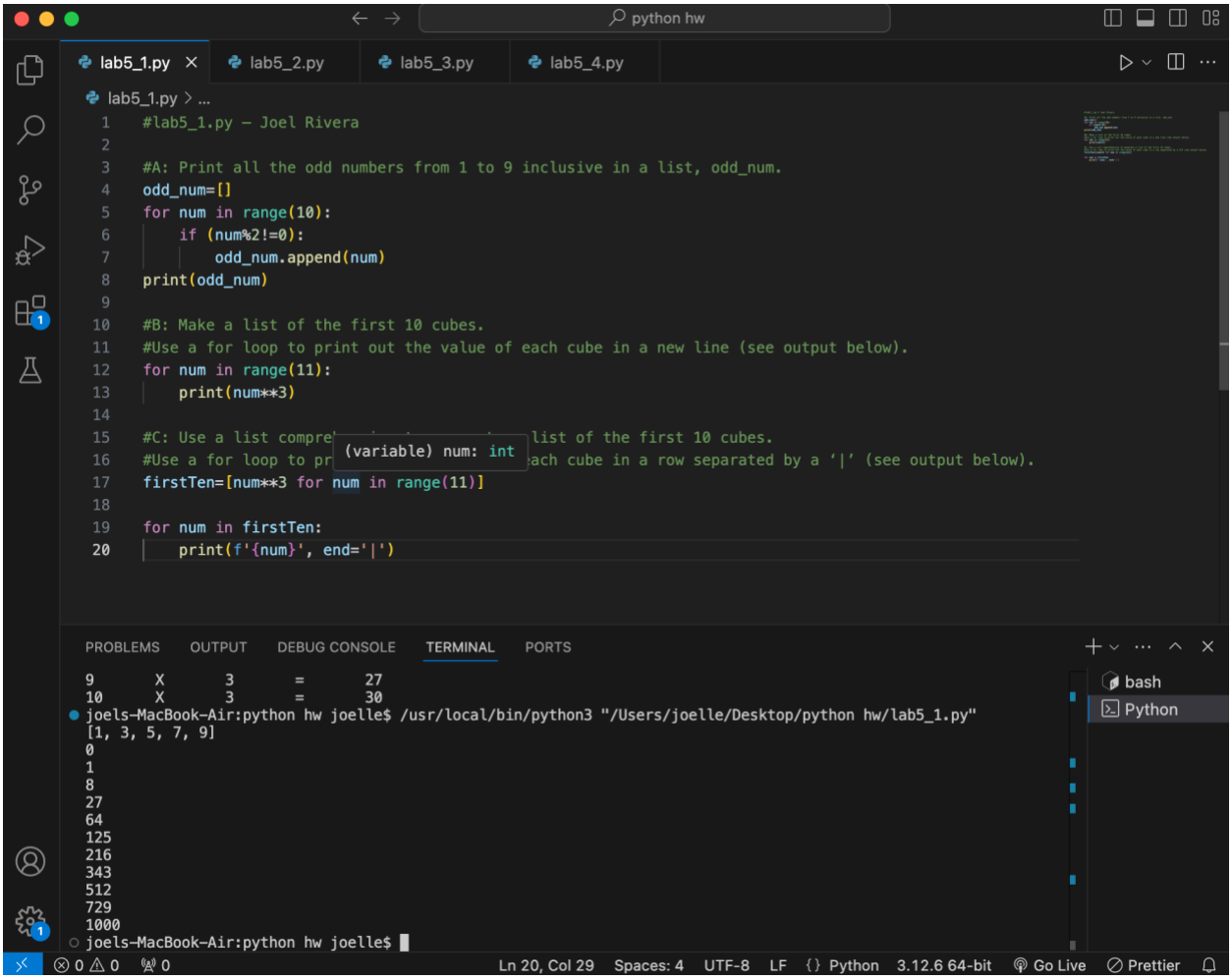
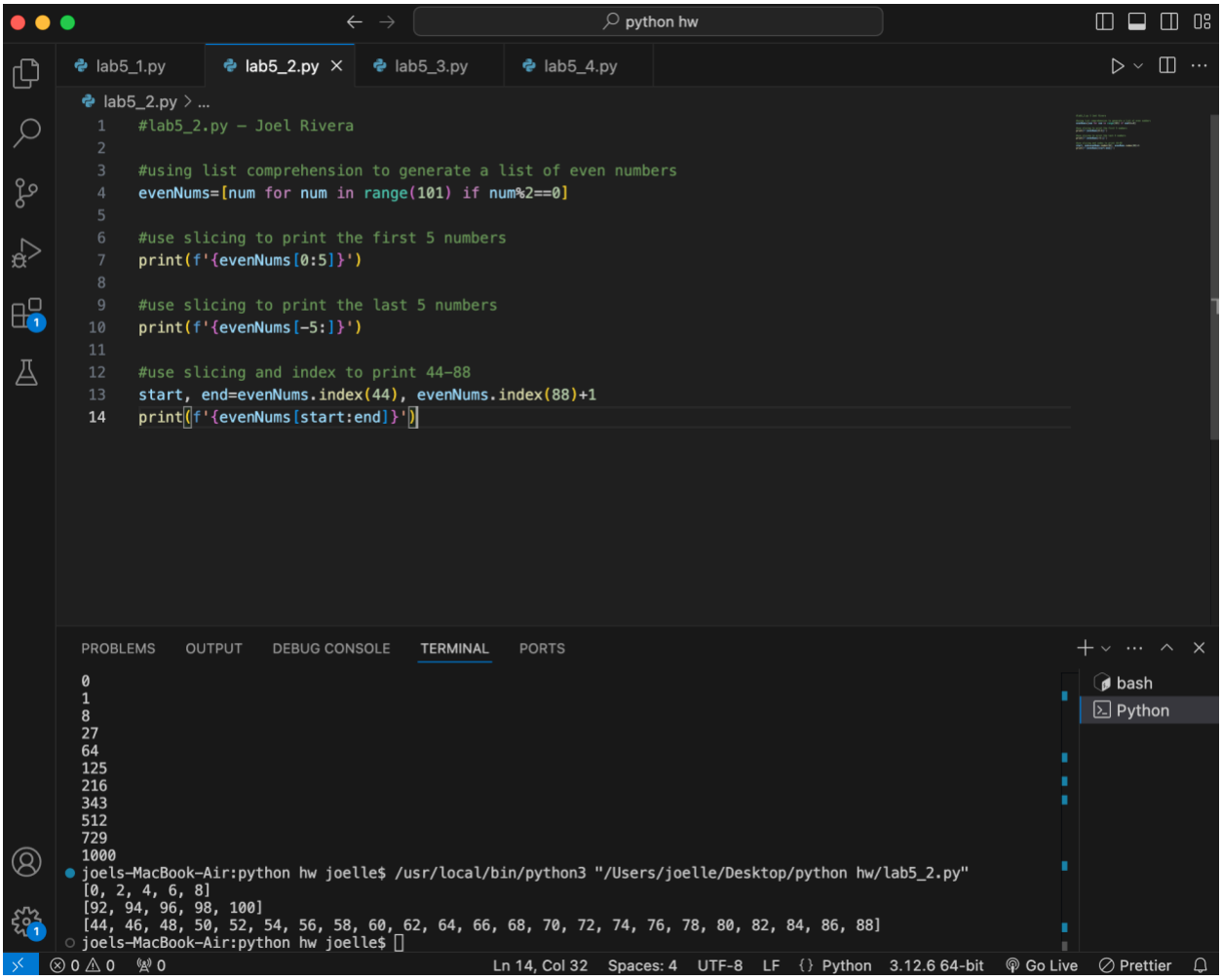
Joel Rivera

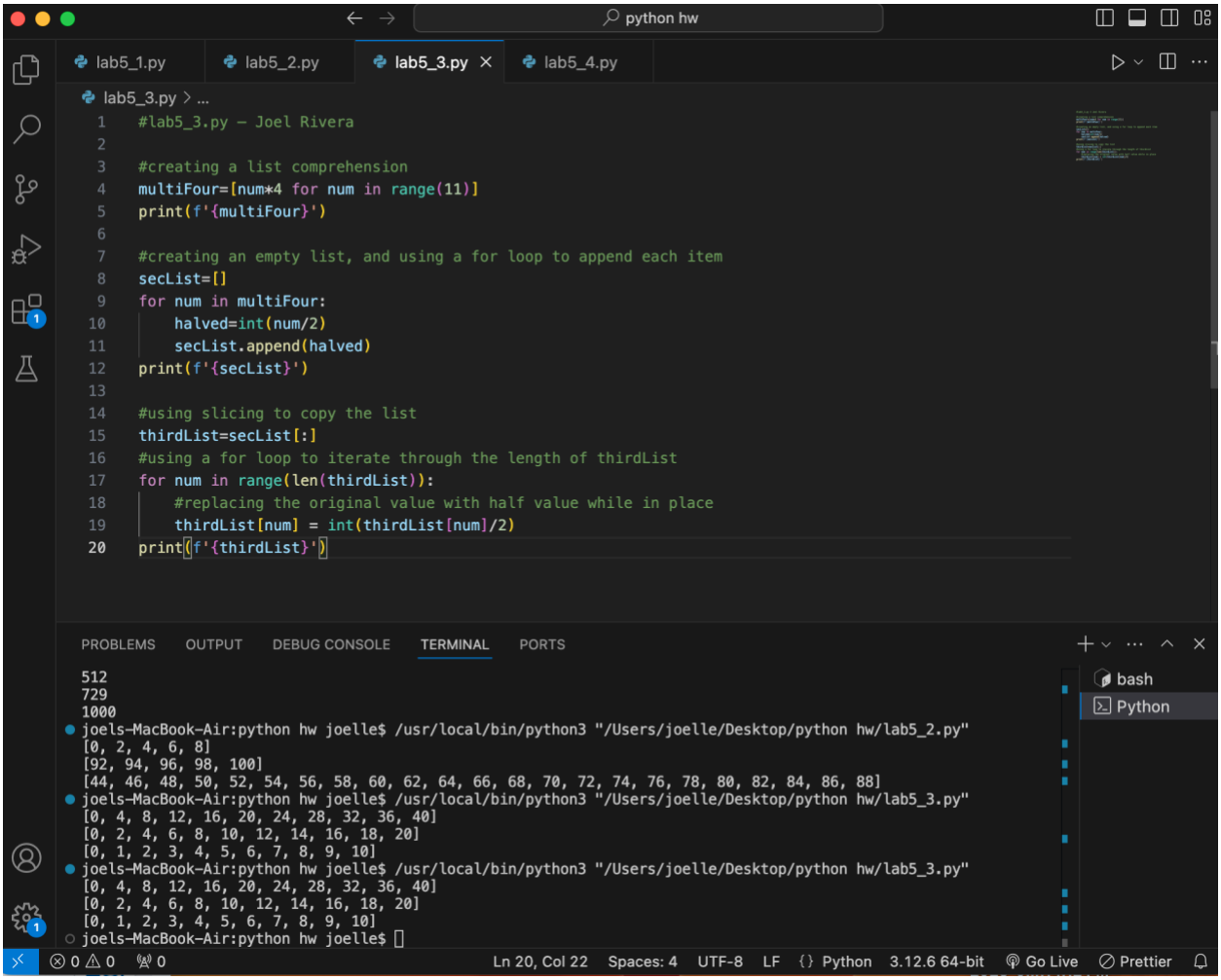
Et-574 F2F4L

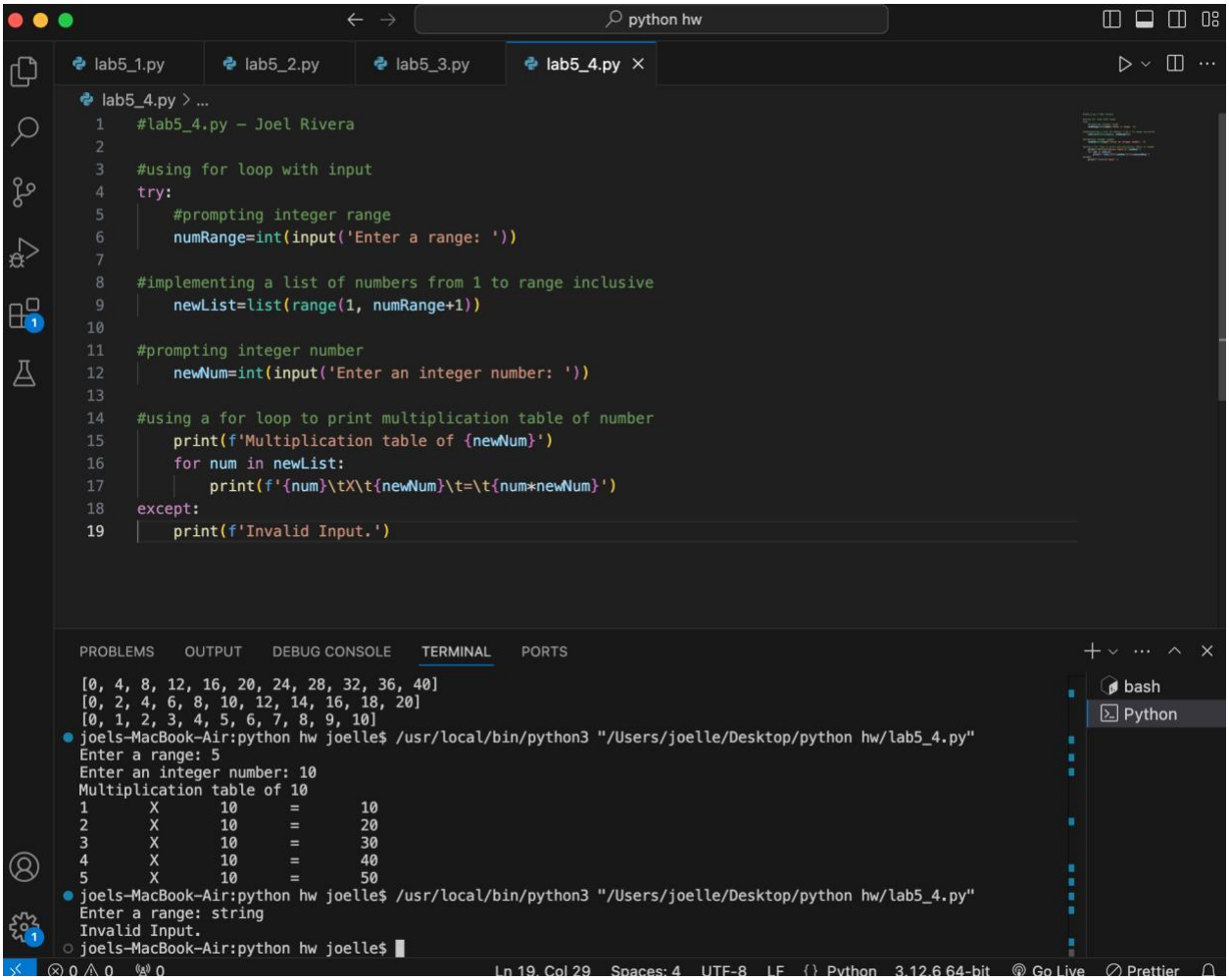
Lab 5

10/10/2024




python hw
lab5_1.py
lab5_2.py
lab5_3.py
lab5_4.py
lab5_2.py > ...
#lab5_2.py – Joel Rivera
#using list comprehension to generate a list of even numbers
evenNums=[num for num in range(101) if num%2==0]
#use slicing to print the first 5 numbers
print(f'{evenNums[0:5]}')
#use slicing to print the last 5 numbers
print(f'{evenNums[-5:]}')
#use slicing and index to print 44-88
start, end=evenNums.index(44), evenNums.index(88)+1
print(f'{evenNums[start:end]}')
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
bash
Python
0
1
8
27
64
125
216
343
512
729
1000
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab5_2.py"
[0, 2, 4, 6, 8]
[92, 94, 96, 98, 100]
[44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88]
joels-MacBook-Air:python hw joelle$
Ln 14, Col 32
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier


python hw
lab5_1.py
lab5_2.py
lab5_3.py
lab5_4.py
lab5_3.py > ...
#lab5_3.py – Joel Rivera
#creating a list comprehension
multiFour=[num*4 for num in range(11)]
print(f'{multiFour}')
#creating an empty list, and using a for loop to append each item
secList=[]
for num in multiFour:
halved=int(num/2)
secList.append(halved)
print(f'{secList}')
#using slicing to copy the list
thirdList=secList[:]
#using a for loop to iterate through the length of thirdList
for num in range(len(thirdList)):
#replacing the original value with half value while in place
thirdList[num] = int(thirdList[num]/2)
print(f'{thirdList}')
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
512
729
1000
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab5_2.py"
[0, 2, 4, 6, 8]
[92, 94, 96, 98, 100]
[44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88]
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab5_3.py"
[0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40]
[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
joels-MacBook-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab5_3.py"
[0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40]
[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
joels-MacBook-Air:python hw joelle$
bash
Python
Ln 20, Col 22
Spaces: 4
UTF-8
LF
Python
3.12.6 64-bit
Go Live
Prettier



5. The first challenge I faced was in the 3rd problem of the lab. I was having an issue copying the second list into the third list and then modifying the list without appending to a forth list, similar to how I appended the variable 'halved' into secList. To find a solution I went on stack overflow where I learned I could replace the original value with value/2 in place while the for loop was iterating and then could print the list, giving me the correct output. The 2nd issue I faced was getting the entire range to output in the last question. I realized I was missing a '+1' so it only iterated to the last index but didn't include it into the output.