

Joel Rivera

Et-574 F2F4L

Lab 3

9/19/24

The screenshot displays a CodeSpaces IDE interface. The top section shows a Chrome browser window with the URL `glowing-goggles-wprv5vvj9r6cgrqx.github.dev`. Below the browser, the IDE's Explorer panel on the left lists files: `lab3_1.py`, `lab3_2.py`, `lab3_3.py`, `lab3_4.py`, `practice.py`, and `README.md`. The main editor area shows the content of `lab3_1.py`, which is a Python script for calculating a tip. The script prompts the user for the bill amount and the tip percentage, calculates the total, and prints the result. The bottom panel shows the terminal output, where the script has been executed with inputs of 25 for the bill and 10 for the tip percentage, resulting in a tip of \$2.50 and a total of \$27.50.

```
#lab3_1.py - Joel Rivera
#prompt the request input for bill and percentage and storing in a variable
bill = float(input('Enter the amount of the bill: '))
percentage = int(input('Enter the percentage of tip: '))

#calculate the result
markdown = percentage/100
total = bill * markdown

#print the result
print('Tip: $%.2f' % total, sep='')
```

```
@joelrivera14 + /workspaces/demo (main) $ /home/codespace/.python/current/bin/python3 /workspaces/demo/lab3_1.py
Enter the amount of the bill: 25
Enter the percentage of tip: 10
Tip: $2.50
@joelrivera14 + /workspaces/demo (main) $
```

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Codespaces x ET574Lab3\_BasicIO - 2024 F x lab3\_2.py -- demo [Codespa... x +

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demo [Codespaces: 574]

EXPLORER ... lab3\_2.py M x lab3\_3.py U lab3\_4.py U lab3\_1.py M

DEMO [CODESPACES: 5... lab3\_1.py M lab3\_2.py M lab3\_3.py U lab3\_4.py U practice.py README.md

lab3\_2.py > ...

```
1 #lab3_2.py ~ Joel Rivera
2
3 #prompt and request an input string from the console
4 prompt = input('Please enter a string: ')
5
6 #displaying the output
7 print('Original Text:', prompt, '\n', 'First Letter:', prompt[0], '\n', 'Last Letter:', prompt[-1], '\n', 'Reversed Text:', prompt[::-1], sep='')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
● @joelrivera14 + /workspaces/demo (main) $ /home/codespace/.python/current/bin/python3 /workspaces/demo/lab3_1.py
Enter the amount of the bill: 25
Enter the percentage of tip: 10
Tip: $2.50
● @joelrivera14 + /workspaces/demo (main) $ /home/codespace/.python/current/bin/python3 /workspaces/demo/lab3_2.py
Please enter a string: Python
Original Text:Python
First Letter:P
Last Letter:n
Reversed Text:nohtyP
○ @joelrivera14 + /workspaces/demo (main) $ []
```

OUTLINE TIMELINE

Codespaces: 574 main\* 04 1↑ 0 0 0 0 0 0 Ln 7, Col 143 Spaces: 4 UTF-8 LF () Python 3.12.1 64-bit Layout: U.S.

Chrome File Edit View History Bookmarks Profiles Tab Window Help

Codespaces x ET574Lab3\_BasicIO - 2024 F x lab3\_3.py -- demo [Codespa... x +

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demo [Codespaces: 574]

EXPLORER ... lab3\_2.py M lab3\_3.py U x lab3\_4.py U lab3\_1.py M

DEMO [CODESPACES: 5... lab3\_3.py > ...

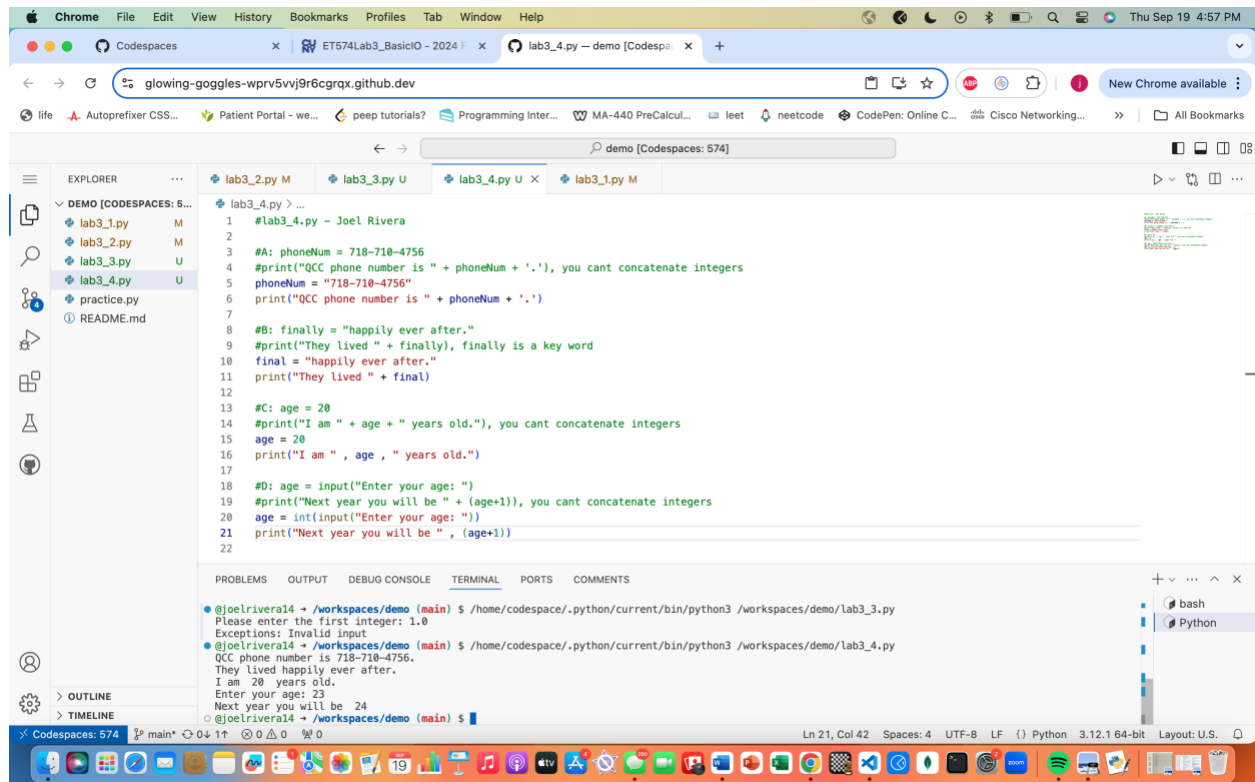
```
4
5 #prompt three integers
6 try:
7     one=int(input('Please enter the first integer: '))
8     two=int(input('Please enter the second integer: '))
9     three=int(input('Please enter the third integer: '))
10    print('Before sorting:', one,two,three)
11    #sorting the integers using the min(), max() functions
12    h=max(one,two,three)
13    s=min(one,two,three)
14    m= one + two + three - h - s
15    #printing all the numbers in order
16    print('After sorting:', s,m,h)
17 except:
18     print('Exceptions: Invalid input')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
Original Text:Python
First Letter:P
Last Letter:n
Reversed Text:nohtyP
● @joelrivera14 + /workspaces/demo (main) $ /home/codespace/.python/current/bin/python3 /workspaces/demo/lab3_3.py
Please enter the first integer: 3
Please enter the second integer: 2
Please enter the third integer: 7
Before sorting: 3 2 7
After sorting: 2 3 7
● @joelrivera14 + /workspaces/demo (main) $ /home/codespace/.python/current/bin/python3 /workspaces/demo/lab3_3.py
Please enter the first integer: 1.0
Exceptions: Invalid input
○ @joelrivera14 + /workspaces/demo (main) $ []
```

OUTLINE TIMELINE

Codespaces: 574 main\* 04 1↑ 0 0 0 0 0 0 Ln 13, Col 36 Spaces: 4 UTF-8 LF () Python 3.12.1 64-bit Layout: U.S.



5. One challenge I faced was figuring out the correct calculation for calculating tip. I was getting a negative answer originally but after figuring out the correct formula, the code was working as it should. The second challenge I faced was figuring out how to code the 'After sorting:' part in the third question. I figured if I could cancel out the values I didn't want, I could then isolate the value I did want and I was then able to store it in variable to print in the output later.