Joel Rivera
Et-574 F2F4L
Lab 2
9/4/24

5.

```python
#lab2_1.py — Joel Rivera

#creating the variable
greet='welcome to a new semester!'

#display the variable with capitalize() string method
print(greet.capitalize())

#using mulitple assignment to creat variables
first,last='joel','rivera'

#using concatenation to combine variables
fullName=first+" "+last

#displaying variable with title() string method
print('Name: ', fullName.title())

#creating class variables
class1,class2,class3='et-704','et-574','et-506'

#using concatenation to store data in one variable
courses=class1+'\t'+class2+'\t'+class3

#display output with upper() string method
print('Courses:', courses.upper())
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
joels-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab2_1.py"
Welcome to a new semester!
Name:  Joel Rivera
Courses: ET-704 ET-574  ET-506
joels-Air:python hw joelle$
```

```python
#lab2_2.py — Joel Rivera

#creating the variable
email='joel.rivera74@student.qcc.cuny.edu'

#using slicing to  print the entire email adress
print(email[:])

#using slicing and find() string methods to print user name
#using slicing, find() and rfind() string methods to print company name
i = email.find('@')
newEmail = email[i+1:]
j = newEmail.find('.')
k= newEmail.rfind('.')

print('User Name: ', email[:i].lower())
print('Company Name: ', newEmail[j+1:k].upper())
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
joels-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab2_1.py"
Welcome to a new semester!
Name:  Joel Rivera
Courses: ET-704 ET-574  ET-506
joels-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab2_2.py"
joel.rivera74@student.qcc.cuny.edu
User Name:  joel.rivera74
Company Name:  QCC.CUNY
joels-Air:python hw joelle$
```

```
lab2_1.py        lab2_2.py        lab2_3.py  ×        lab2_4.py
```

PYTHON HW
lab2_1.py
lab2_2.py
lab2_3.py
lab2_4.py

lab2_3.py

```python
1   #lab2_3.py — Joel Rivera
2
3   #displaying a triangle using repition
4   print(" "*7+'*')
5   print(" "*6+'*'*3)
6   print(" "*5+'*'*5)
7   print(" "*4+'*'*7)
8   print(" "*3+'*'*9)
9   print(" "*2+'*'*11)
10  print(" "+'*'*13)
11  print('*'*15)
12
13
```
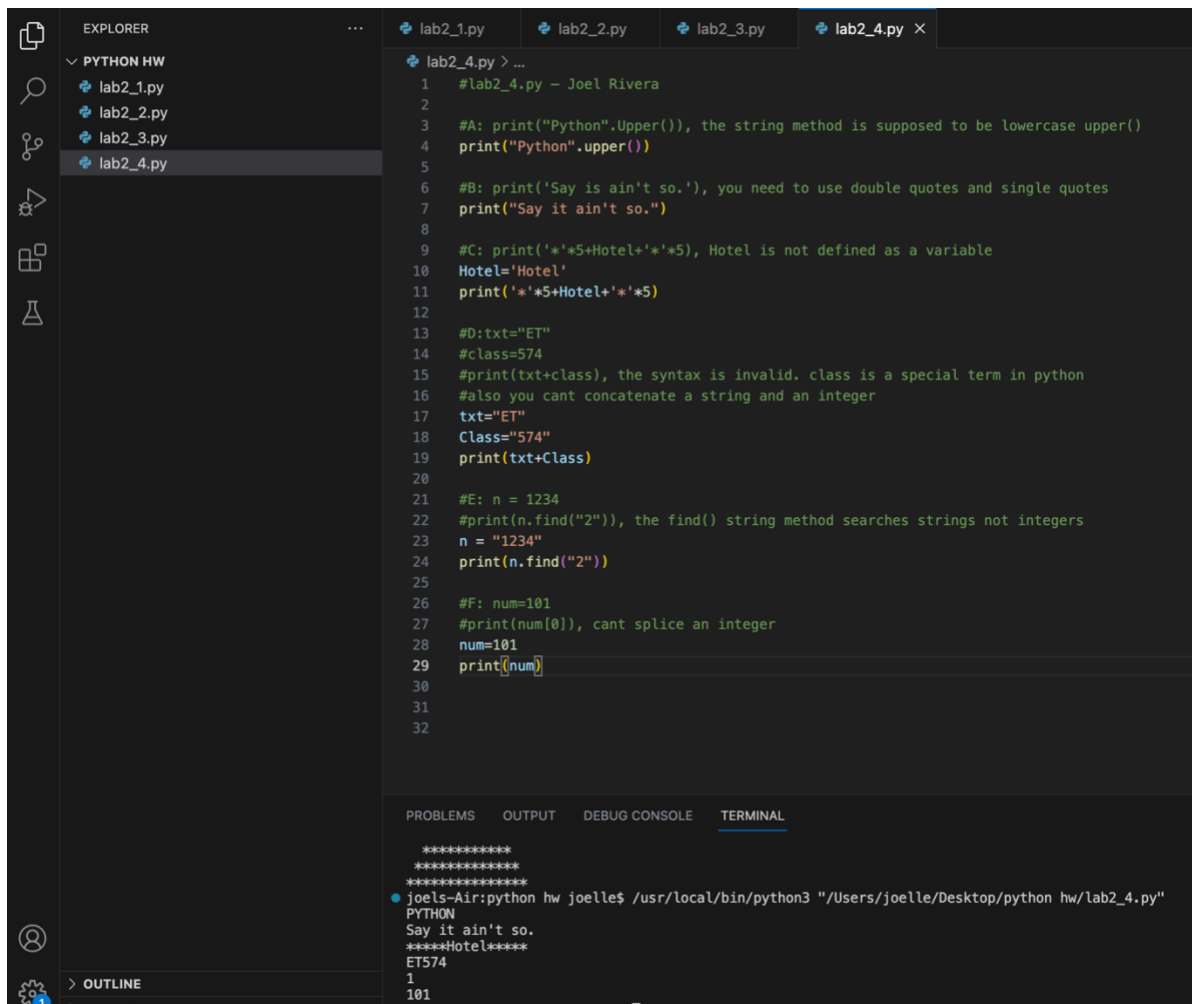
PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
joels-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joel
3.py"
        *
       ***
      *****
     *******
    *********
   ***********
  *************
 ***************
```

OUTLINE
TIMELINE

```python
#lab2_4.py — Joel Rivera

#A: print("Python".Upper()), the string method is supposed to be lowercase upper()
print("Python".upper())

#B: print('Say is ain't so.'), you need to use double quotes and single quotes
print("Say it ain't so.")

#C: print('*'*5+Hotel+'*'*5), Hotel is not defined as a variable
Hotel='Hotel'
print('*'*5+Hotel+'*'*5)

#D:txt="ET"
#class=574
#print(txt+class), the syntax is invalid. class is a special term in python
#also you cant concatenate a string and an integer
txt="ET"
Class="574"
print(txt+Class)

#E: n = 1234
#print(n.find("2")), the find() string method searches strings not integers
n = "1234"
print(n.find("2"))

#F: num=101
#print(num[0]), cant splice an integer
num=101
print(num)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
************
*************
***************
joels-Air:python hw joelle$ /usr/local/bin/python3 "/Users/joelle/Desktop/python hw/lab2_4.py"
PYTHON
Say it ain't so.
*****Hotel*****
ET574
1
101
```

Two challenges I faced in the lab were the 2ⁿᵈ question and the last problem to debug in the 4ᵗʰ question. I didn't know how to use the find() string method along with splice to get the desired output in the 2ⁿᵈ question and my very kind professor helped me with the syntax. The second challenge I faced was in the 4ᵗʰ problem, I wasn't really sure what the error meant; it said '‘int' object is not subscriptable" and I understood that as maybe you cant splice an integer and only strings can be spliced but im not sure.