Lab 2

A)

Jhonatan_LAB2 > lab2_1.py > ...

```python
greet = "welcome to a new semester!"
first, last = "jhonatan","parada"
class1, class2, class3 = "et574", "ma119", "engl101"

name = f"{first} {last}"
courses = f"{class1}\t{class2}\t{class3}"

print(greet.capitalize())
print(f"Name: {name.title()}")
print(f"Courses: {courses.upper()}")

```

```
@jhonatanparada499 ➜/workspaces/Jhonatan_ET574 (main) $ /home/codespace/.python/current/bin/python3
natan_ET574/Jhonatan_LAB2/lab2_1.py
Welcome to a new semester!
Name: Jhonatan Parada
Courses: ET574  MA119   ENGL101
```

Jhonatan_LAB2 > lab2_2.py > ...

```python
email = "jhonatanparada499@gmail.com"

email_address = email[::]
user_name = email[:email.find("@")]
company_name = email[email.find("@") + 1:email.rfind(".")]

print(
f"\
Email address: {email_address}\n\
User name: {user_name.lower()}\n\
Company_name: {company_name.upper()}\
"
)

```

```
@jhonatanparada499 ➜/workspaces/Jhonatan_ET574 (main) $ /home/codespace/.python/current/bin/python3
natan_ET574/Jhonatan_LAB2/lab2_2.py
Email address: jhonatanparada499@gmail.com
User name: jhonatanparada499
Company_name: GMAIL
```

Jhonatan_LAB2 > lab2_3.py > ...

```python
pyramid_height = 8

for i in range(pyramid_height):
    print(" " * (pyramid_height - (i + 1)),"*" * (i + (i + 1)),sep='',end='\n')

```

```
@jhonatanparada499 ➜/workspaces/Jhonatan_ET574 (main) $ /home/codespace/.python/current/bin/python3
natan_ET574/Jhonatan_LAB2/lab2_3.py
       *
      ***
     *****
    *******
   *********
  ***********
 *************
***************
```

Jhonatan_LAB2 > lab2_4.py > ...

```python
#A print("Python").Upper()
#Errors: .Upper() is not a method of the function print(), first character must be lowercase
print("Python".upper())

#B Print('Say it ain't so.')
#Errors: Quote mark in the word "ain't" is closing the string of the function
#and it is not concatenating the rest of it
print('Say it ain\'t so')

#C print('*'*5 +Hotel+'*'*5)
#Erros: Unless "Hotel" is a variable containing a string, it must be set as string in order to
#be concatenated with the other strings
print('*'*5+'Hotel'+'*'*5)

#D txt = "ET"
#  class = 574
#  print(txt+class)
#Errors: Forgot to add quotation mark to 574, int or float values cannot be concatenated with strings
txt = "ET"
class_0 = "574"
print(txt+class_0)

#E n = 1234
#  print(n.find('2'))
#Errors: .find() is a string method, therefore, variable n must contain a string, not an int or
#float value
n = '1234'
print(n.find('2'))

#F num = 101
#  print(num[0])
#Errors: The brackets in this context are used to access an element by their index, they don't
#work with int and float values but strings and lists
num = '101'
print(num[0])
```

```
@jhonatanparada499 →/workspaces/Jhonatan_ET574 (main) $ /home/codespace/.python/current/bin/python3 /workspaces/Jhonatan_ET574/Jhonatan_LAB2
b2_4.py
PYTHON
Say it ain't so
*****Hotel*****
ET574
1
1
```

B) Summary

I learned to manipulate strings and lists using the format slicing in python.

I enjoyed working on the problem of the pyramid. Thanks to the knowledge I have acquired from the previous classes I was able to simplify my code to just 3 lines, I think that is one of the most elegant pieces of code I have ever written.