# Questions before we start?







#### **Contents**

Presentation

Quiz

Wrap-up



# Presentations (7 min max per group)



Time to stretch!



Leave your desk!

# Quiz



# No electronic devices plz.



#### Course content

Course organization

Things you need to practice yourself

Live coding





# Name 3 Python types



Specify whether they are mutable or immutable





# Name 3 Python types



Specify whether they are mutable or immutable





# Python variables are associated with types that are dynamically assigned.

True or False?





Name 2 textbook that we use in this course.



Which one has fewer number of chapters?





int('3')



int(3.2)





2\*\*2



float(1)



# Specify the returned value:

print('2')





5 // 2



6 % 3





3 << 2



8 >> 1





seq[1]



$$Seq = [0, 1, 3]$$



$$seq = [0, 1, 3]$$





$$seq = [0, 1, 3]$$



$$seq = [0, 1, 3]$$



$$seq = [0, 1, 3]$$





$$seq = [0, 1, 2, 3, 4, 5]$$



$$seq = [0, 1, 2, 3, 4, 5]$$



$$seq = [0, 1, 2, 3, 4, 5]$$

seq[::2]





$$seq = [0, 1, 3]$$

PRINT(seq)



# What's printed:

$$seq = [0, 1, 3,]$$

print(seq)



# What's printed:

$$seq = [0]$$

print(print(seq))





What's the one and only purpose of this course?



What's the keyword to success in this course in the lecturer's opinion?



He's really annoying huh?





#### Debug:





#### What's printed:

```
def this_func(c, d):
   c += 1
   d[0] = 3
a = 1
b = [1, 2]
this_func(a, b)
print(a, b)
```



#### What's printed:

```
def this_func(c=0, d):
    c += 1
    d[0] = 3

a = 1
b = [1, 2]
this_func(b)
print(a, b)
```





#### What's printed:

```
def this_func(c=0, d):
    c += 1
    d[0] = 3
    return c, d
```





What happens when you end a string with an odd number of backslash(s)?



What should you use for indentation in Python?





Describe the differences between break and continue.



When could you use pass?





When could you use pass?



Difference between while loop and for loop?





What does try ... except ... else do?





Name 3 python sequences.



Mutable or immutable?



Give 3 invalid python variable identifiers.





## Explain what happens:



#### Count the number of references for all string objects:





When do you delete an object in python? Can you delete objects yourself?





Write a for loop to print number from 0 to 10 including 10.





Write a for loop to print number from 0 to 10 including 10. Each number should be in separate lines.

The code should be in only one line.





Define a test framework that contains stepA, stepB, stepC.

Use dummy functions for stepA, stepB, stepC.

Call the steps sequentially.

If an error occurs in the testing process,

print('ERROR')





Write a function that takes one input value at a time, that prints everything except integer.

[True, 1, 2, 3, 'fart', 4, 1.1, 2.2, 3.3, 4.4, '10.1']



# Wrap-up

✓ Next week we spend the entire week to go through python class



# Wrap-up

✓ Practice makes perfect.

