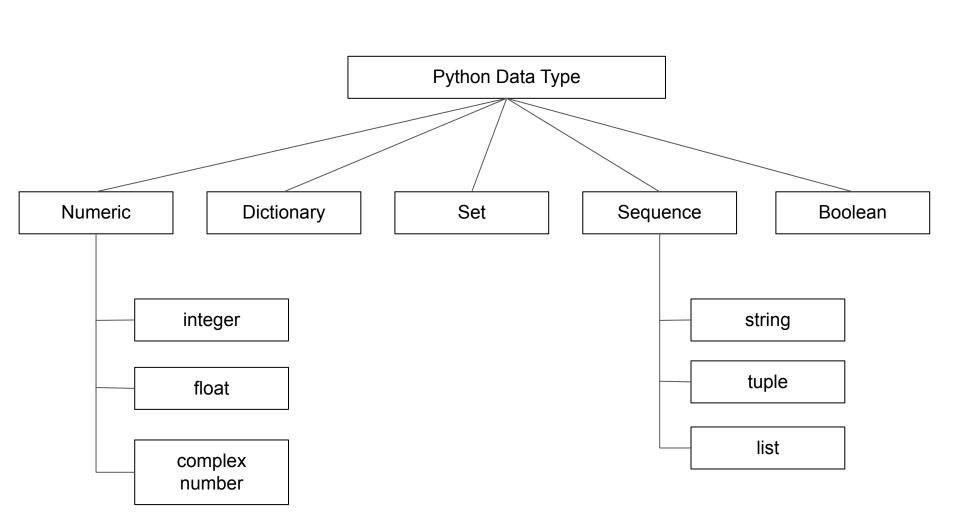
# Semester review and exercise



# dictionary

```
a= {'x': 1, 'y': 7}

for k, v in a.items():
    print(k, v)

for k in a.items():
    print(k)

for k in a:
    print(k)
```

## string

```
s= 'this is a test'
for x in s:
    print(x)
```

Question1: how to print the reversed s, e.g., 'tset si a siht'

Question2: how to print the reversed individual words, e.g., 'siht si a tset'

# integer

```
x = 3
y = 4
z = 5
a = x+y+z
print('the average is: ' + (a/3))
Question 3: what is wrong with this code?
```

#### float

a = 15

b = 15.0

c = a + b

Question 4: What will c be? What data type will it be?

#### list

Question 5: how to retrieve any value from a list of lists?

For example, if A=[[1, 3, 2], [4, 5, 6]], how to get the **3** which is the **second** item of the **first** list, using the 1, 2 and A as the input?

#### boolean

```
x = 5
y = 7
print(x < y)
print(x == y)
print(x > y)
Question 6: what are the print result:
```

- 1. print( (x<y) and (x>y) )
- 2. print((x < y) or (x > y))

## Set

 $A = \{1,\}$ 

type(A)

A.add(2)

A.add(2)

print(A)

 $B = \{1, 2, 3, 2, 1\}$ 

print(B)

for x in B:

print(x)