

Functional programming 2

2) Zip takes 'two or more iterables' and zips them into tuples

→ Zip(*zipped-object) can be used for unzipping

→ The output of Zip depends on length of iterable which has minimum length.

* args can be used to pass additional optional arguments in form of a tuple

**kwargs : for additional key word Arguments in form of dictionary

→ Higher Order function

↳ A function which
returns another
function

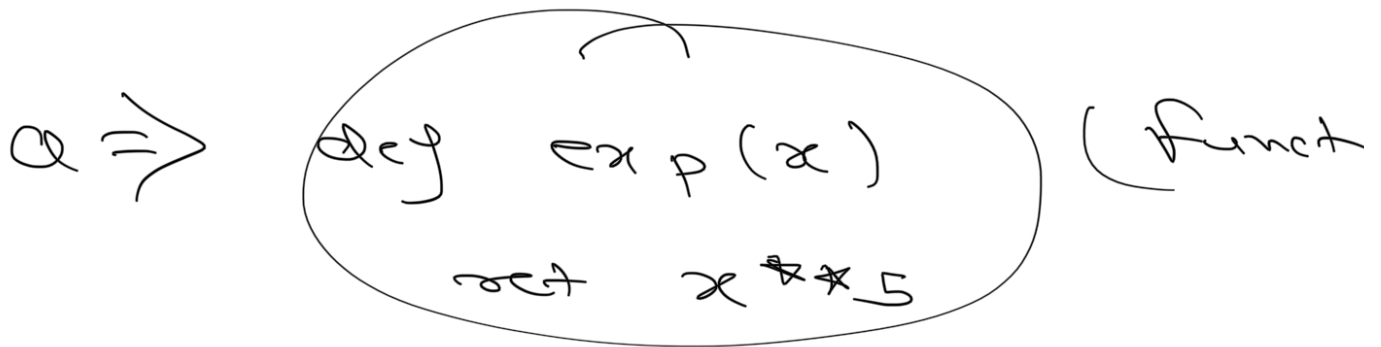
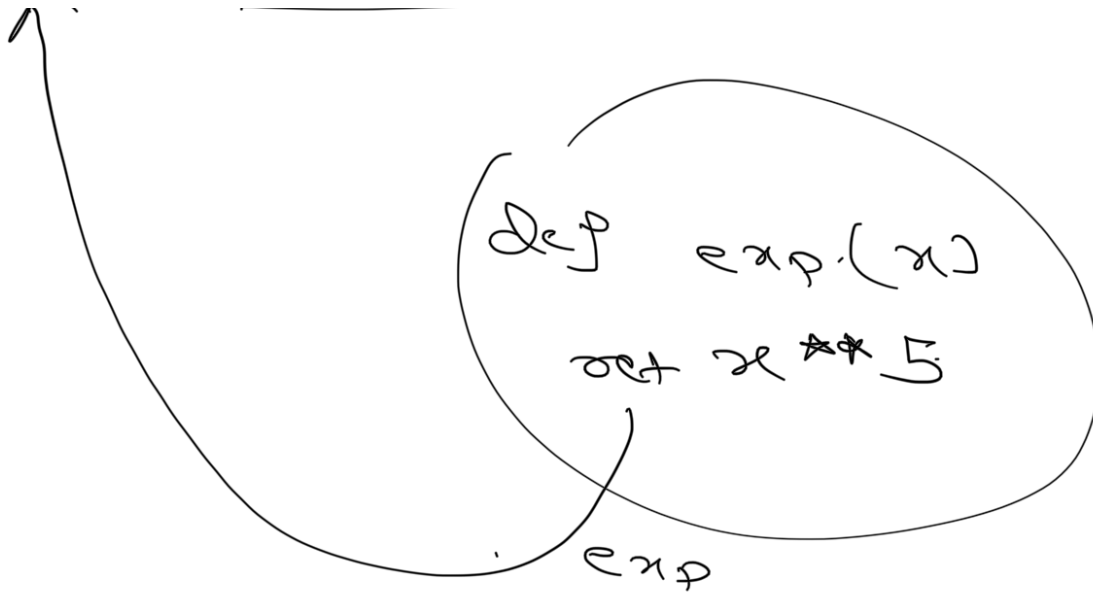
def sum;

return (str, list, int, float,
dictionary, set, tuple)

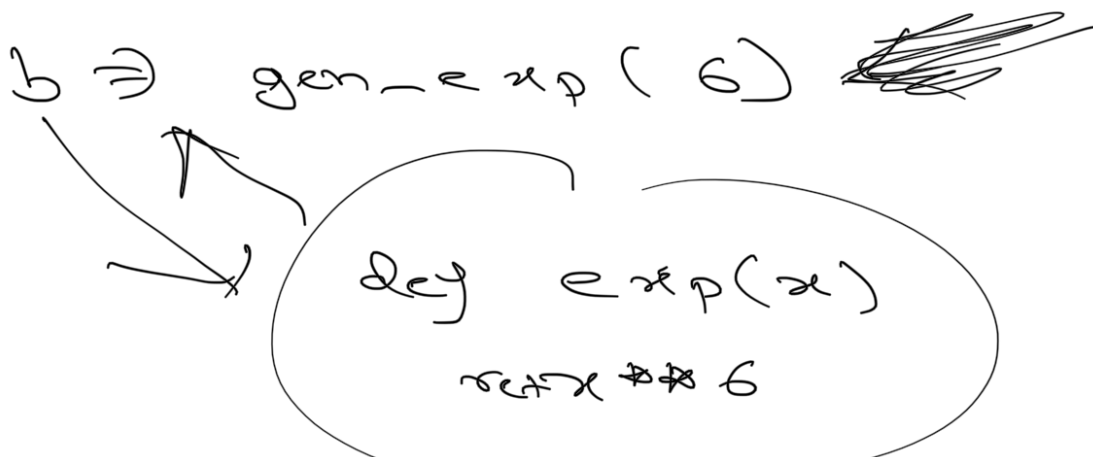
def genexp(y) ↗

def exp(x)
return x**y ↖
return exp

a = gen-exp(5)



$$Q(2) \Rightarrow 2^{**5}$$



$$b(3) = 3 \times 6$$

Extension of HOF

1) Decorator

- takes function as argument
- return function