Functional Programming

Procedural Programming

Step1 ⇒ def Func(x):

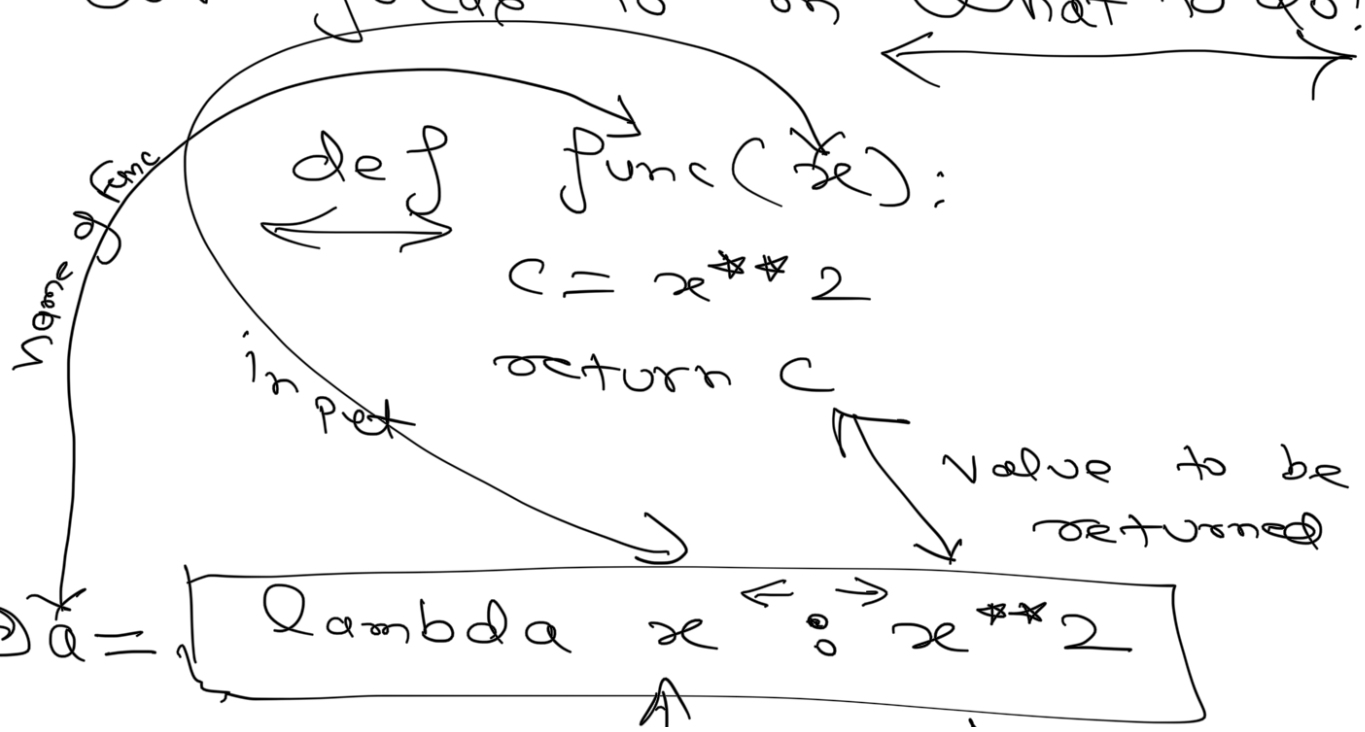
Step2 ⇒ c = x**2

Step3 ⇒ return c

Step4 ⇒ Func(3)

⇒ In tradional programming we focus on "How to do?"

⇒ In Functional Programming Our focus is on "What to do?"



Input → Output

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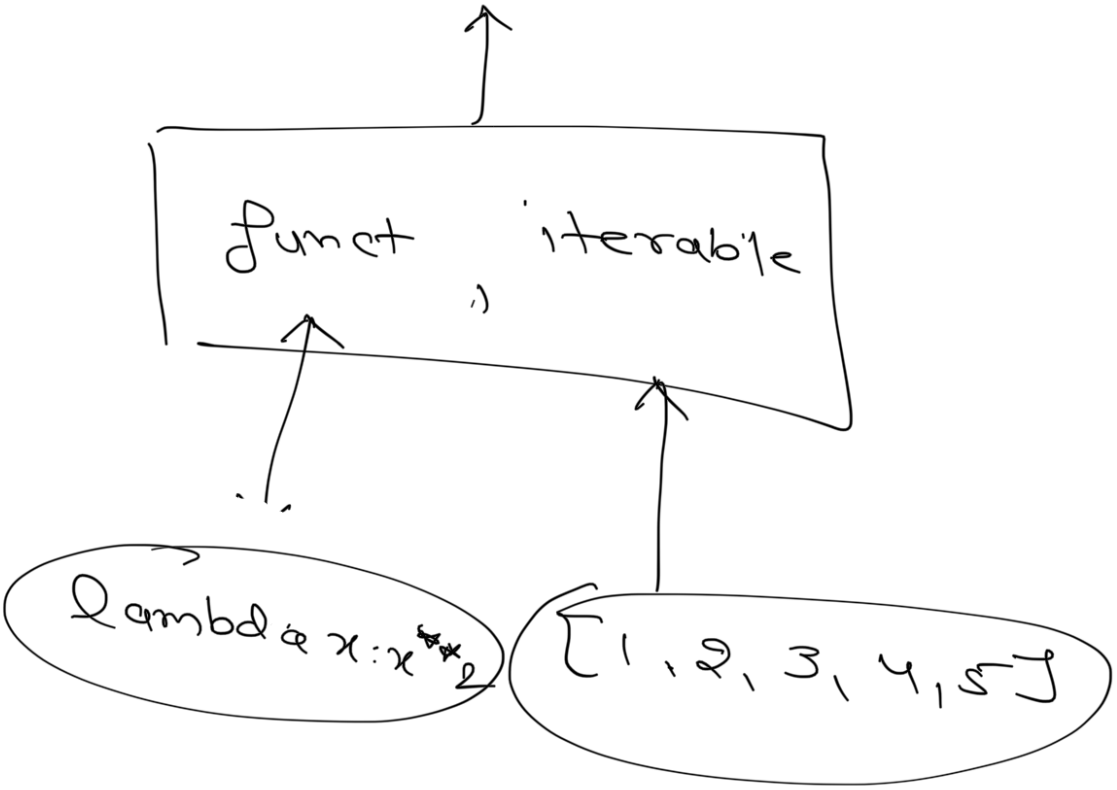
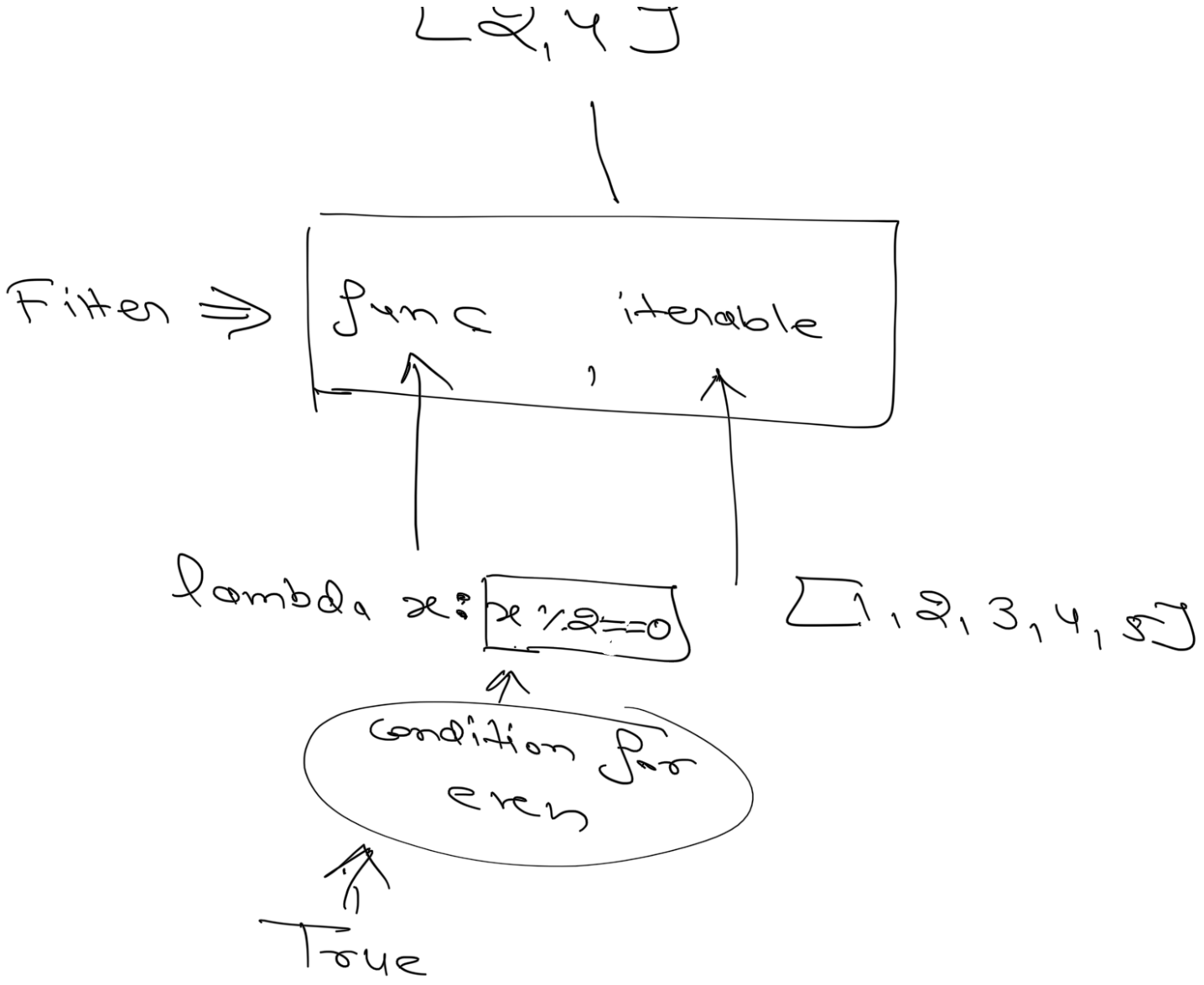
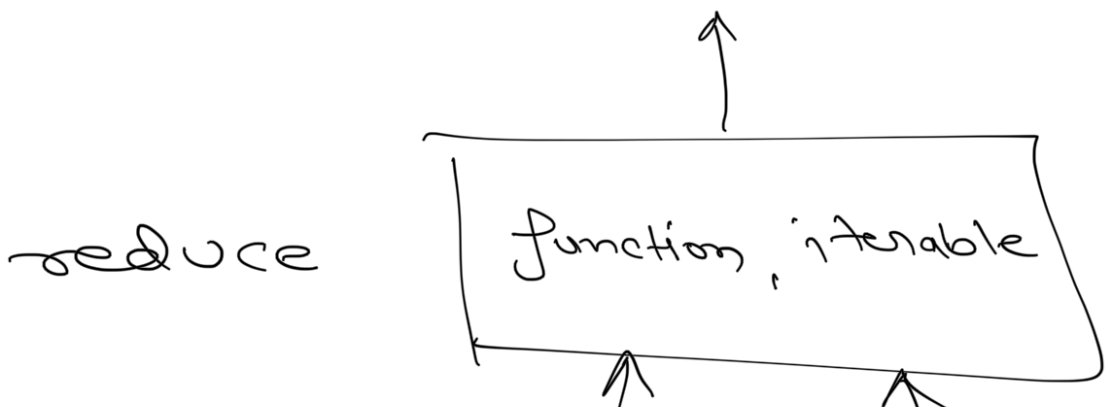
map

[1, 4, 9, 16, 25]



- Applies function on every single element of iterable.


[2, 4]
filter
func
iterable
lambda x: x%2==0
[1, 2, 3, 4, 5]
condition for each
True

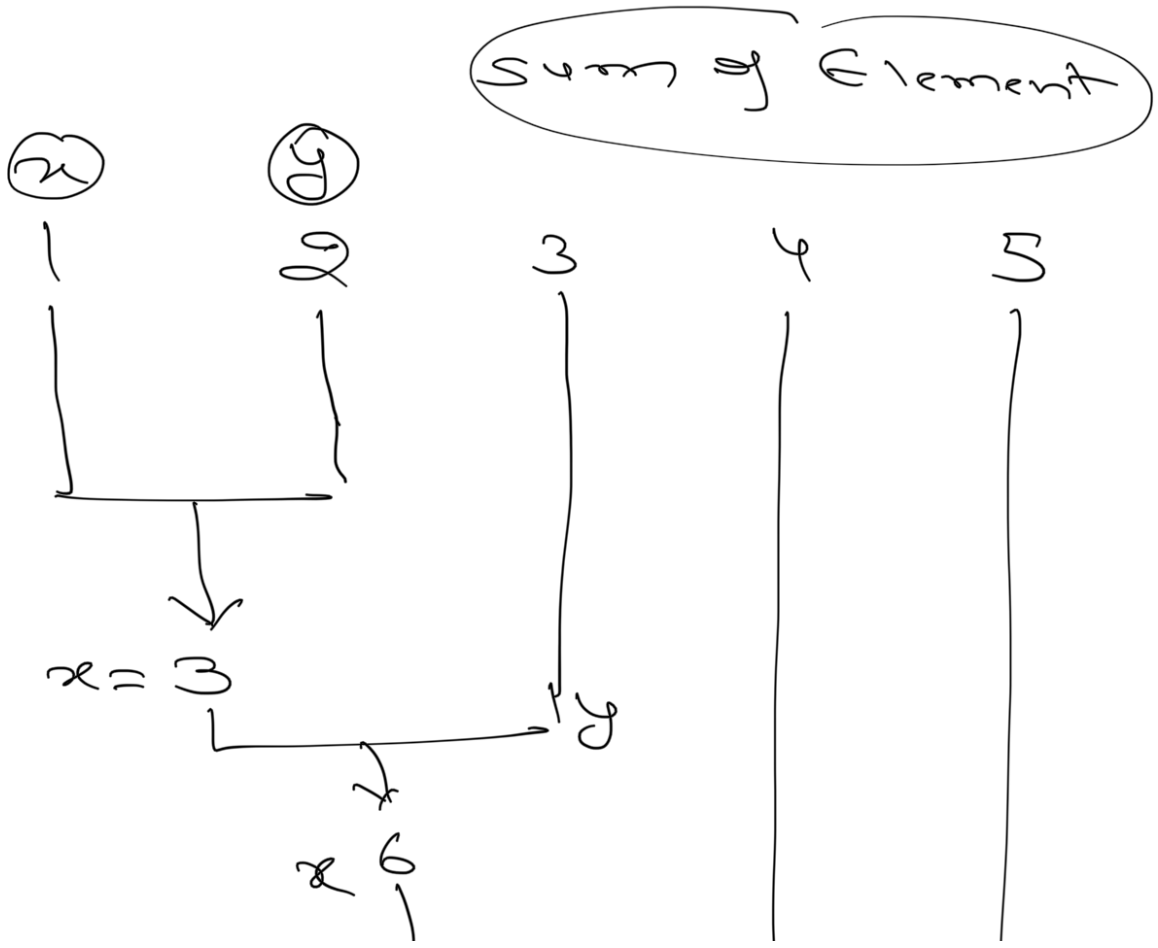

reduce
function, iterable

lambda x, y : x + y

[1, 2, 3, 4, 5]

H.W

map		
filter		
Reduce		



- Functional Pr
  - What we want to
  - Expressions

- lambda x : x ** 3 (3)
  - input
  - output
- Q7