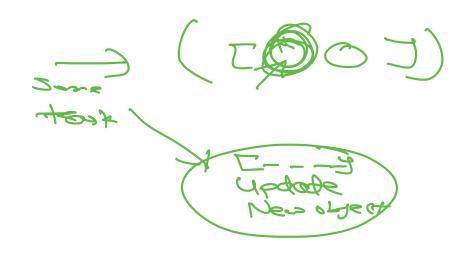
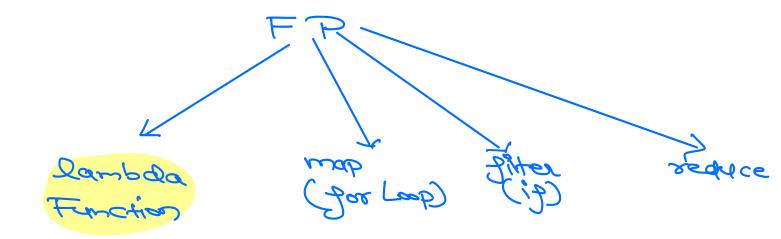
## Functional Programming

- O State charge in not allowed
- Declarative: Jocuses on what the
  - 1) FP is more concine and readable

5 More maintainable: Chances of Error duk to change in cade one less

3 Eggicient





4 Lambda Junctions are also known

## HOF

Higher Order Functions

- 1) Functions that seturns another
- D Used for creating new-variations of Existing Punctions On the Ply

deg exp(x):  $2e^{-5} = 3e^{-6} \times p(x)$   $e^{-5} = (x * 5) \Rightarrow e^{-5} \times x \times 5$   $e^{-5} = (x * 5) \Rightarrow e^{-5} \times x \times 5$   $e^{-5} = (x * 5) \Rightarrow e^{-5} \times x \times 5$ 

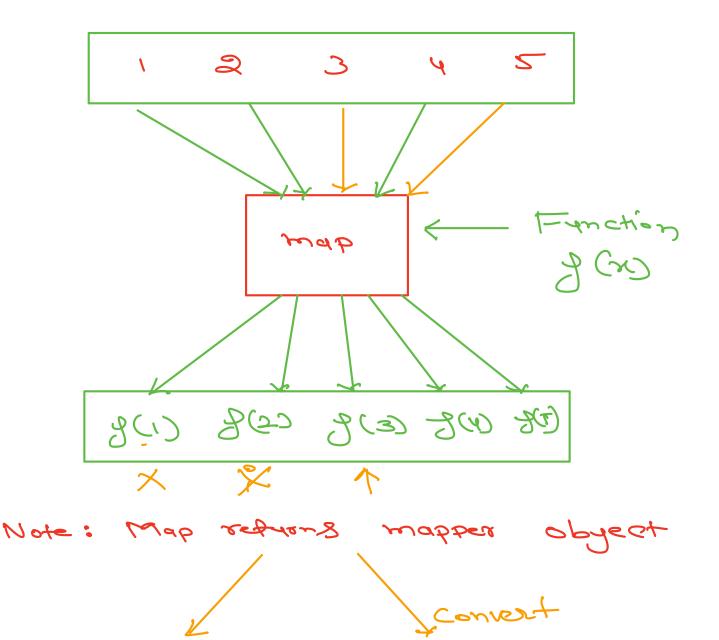
Decorator

9 Takes Functions as input

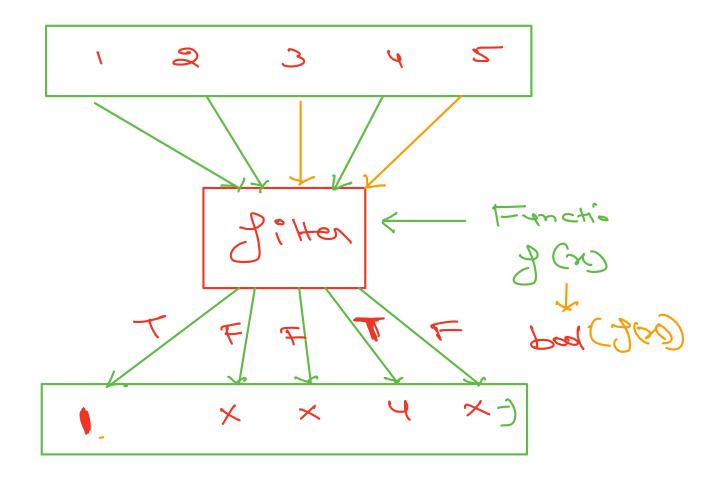
Eurction alities

Description Janchion

Jast ApI Flask ApI map is an alternative to For Roop



Rist, top R, set



Out put - length  $\leq N$