

Q11] Using pen and paper write the internal mechanism for sum operation using reduce function on this given list :  $[47, 11, 42, 13]$

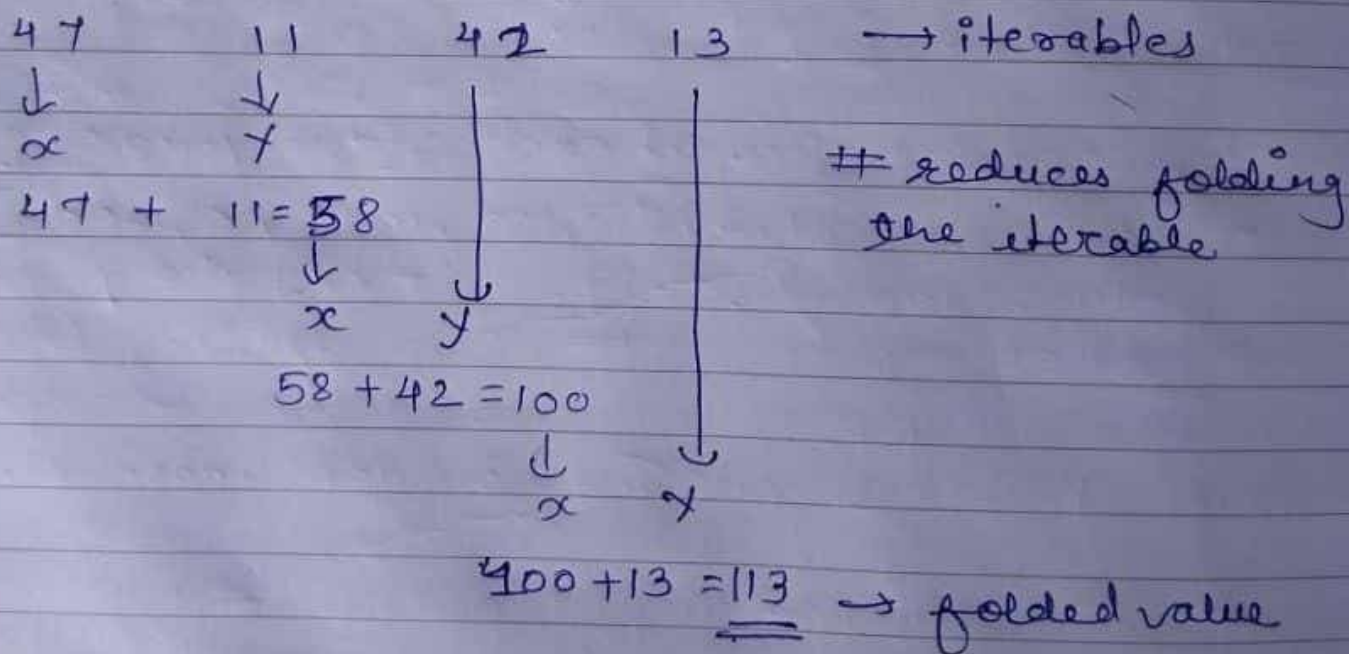
→

- from functools import reduce
- list =  $[47, 11, 42, 13]$  # folds all the data.
- reduce( $\underbrace{\text{lambda } x, y : x + y}_{\text{function}}, \underbrace{[47, 11, 42, 13]}_{\text{iterables}}$ )

→ 113

### \* Internal Mechanism:

Reduce function means folding and Reduction. It is not python keyword we have to import it from library called functools. Functool is collection of functions so we have to import a function reduce from Library.



∴ At output we get addition of all given values in the list

Note: At output we get a single element as given 113 (Addition of all elements in list) as single element.