

11. a)

list : [47, 11, 42, 13]

from functools import reduce

list = [47, 11, 42, 13]

result = reduce(lambda x, y: x+y, list)

Step 1

47 11
x, y

$$47 + 11 = 58$$

It takes first two element and applies the function (x+y):

Step 2

58 42
x, y

$$58 + 42 = 100$$

takes the result (58) and the next element (42):

Step 3

100 13
x, y

$$100 + 13 = 113$$

takes the result (100) and the last element (13):