

Q11. Using pen & paper.

Write the internal mechanism for sum operation using reduce function on the given list $[47, 11, 42, 13]$.

1) Example. `reduce()`

`list = [47, 11, 42, 13]`

`sum = functools.reduce(lambda x, y: x+y, num)`

`print(sum)`

Rough work

$$\begin{array}{r} = 47, 11, 42, 13 \\ \begin{array}{c} 47 \\ + 11 \\ \hline 58 \end{array} \quad \begin{array}{c} 58 \\ + 42 \\ \hline 100 \end{array} \quad \begin{array}{c} 100 \\ + 13 \\ \hline 113 \end{array} \end{array}$$