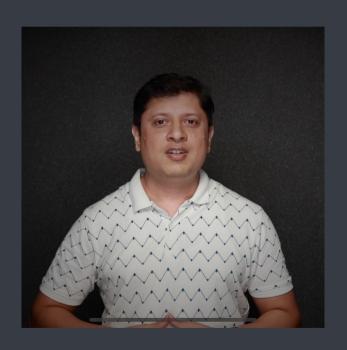
Full stack web development using python map reduce filter



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Agenda

- (i) map
- 2 reduce
- 3 filter

map

maper function returns a map object (iterable) of the results after applying the given function to each item of a given iterable (list, tuple, etc.)

map (function, iterable)

li=[1,2,3,4] def Square (a) return a*a 12 = List (map (square, 11))
print (12)

[1,4,9,16]

reduce

The reduce (function, iterable) function is defined in functools module

Just like map function, argument function is applied to all the element of argument iterable in reduce method.

map returns an iterable, where as reduce returns an accumulated Smyle value.

l1= [1,2,3,4]

def multiply(a,b):

return a*b

r = reduce (multiply, 11)
print (r)

filter

The filter method filters a given iterable with the help of a function that tests each element in the iterable to be true or not

filter (function, iterable)

li=[2,3,5,6,7,9,11,13,15] det checkfrime (n): for i in range (2, n): if n% i == 0: return False return True filtered List = filter (check Prime, li) print (filtered List)

[2,3,5,7,11,13]