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Anonymous function:-
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sometimes we can declare a function without any name, such type of nameless
functions are called anonymous functions or lambda functions.
single line code.
lambda function:-
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we can define by using lambda keyword.
syntax:-
variable = lambda parameters:expression
Note: - By using Lambda function we can write very concise code that
readability of the program will be improved.
#WAP to craete a lambda function to find squre
s = lambda n:n*n
print("the squre of 4 is:",s(4))
#WAP lambda to find biggest no.
s = lambda a,b:a if a>b else b
print("The biggest no is:",s(10,20))
Note:-
Lambda function interally returns expression value and we are not required
to write return statement explicitly.
2. Someties we can pass function as argument to another function.in such
cases lambda function are best choice.
filter() function:-
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we can use filter() function to filter values from the given sequence
based on some condition.
syntax:-
variable= filter(function, sequence)
#WAP to filter only even no.
1 = [5, 10, 15, 20, 25, 30, 35, 40, 45, 50]
s = list(filter(lambda x:x%2==0,1))
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print(s)

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map() function:-
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For every element present in the given sequence apply some functionality
and generate new element with the required modification, For this
requirement we should go for map() function.
syntax:-
variable= map(function, sequence)
1 = [5, 10, 15, 20, 25, 30, 35, 40, 45, 50]
s = list(map(lambda x:2*x,1))
print(s)
reduce():-
reduce function reduce sequence of element into a single element by
applying the specified function.
syntax:-
variable= map(function, sequence)
reduce() function present in functools module and hence we should import
from functools import *
1 = [10, 20, 30, 40]
s = reduce(lambda x, y:x+y, l)
print(s)
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