Anonymous/Lambda function

In python, anonymous function is a function that defined without a name.

while normal functions are defined using def keyword, in python anonymous function are defined using lambda keyword.

lambda function are used extensively along with built-in function lile filter(), map().

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syntax:
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lambda argument: expression
double = lambda x: x*2
print(double(5))
10
def double(x):
    return x*2
print(double(5))
10
# Example use with Fillter()
lst = [0,1,2,3,4,5,6,7,8,9,10,11,12]
even lst = list(filter(lambda x: ( x % 2 == 0), lst))
filter( function_name, sequence)
print(even lst)
[0, 2, 4, 6, 8, 10, 12]
# Example use with map()
lst = [1,2,3,4,5,6,7,8]
new lst = list(map(lambda x : x^{**3}, lst)) # map(function name,
seauence)
print(new lst)
[1, 8, 27, 64, 125, 216, 343, 512]
# Example function with reduce()
from functools import reduce
lst = [1,2,3,4,5,6]
product lst = reduce(lambda x , y : x*y,lst)
print(product lst)
720
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