

# 5 Powerful functions In Python



# Introduction

Python has a lot of built-in functions some of them are very useful and some of them are rarely used.

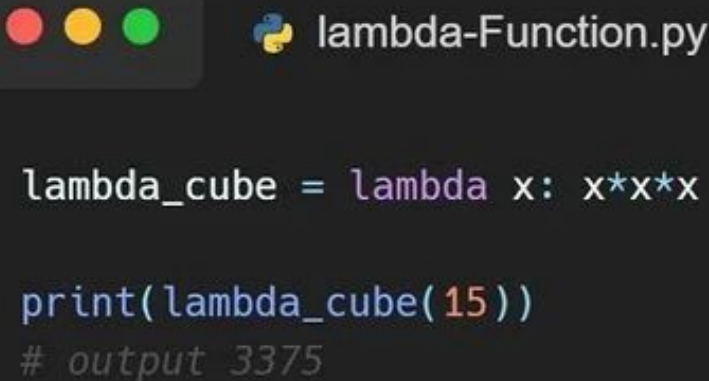
In this post I listed **Top 5 Python functions** which I believe every python programmer must know about.



# Lambda function:

It is also known as anonymous function.

If you have a single operation to be performed then the lambda function is extremely useful instead of defining a function using def keyword.



```
lambda_cube = lambda x: x*x*x  
  
print(lambda_cube(15))  
# output 3375
```

In all the slides I used the lambda function instead of the def function for better understanding.



## Map function:

The map function is used when you want to execute a function for each item in a iterable.

map functions are more efficient then loops when we are working on iterable with a large number of elements

```
map-Function.py

fruit = ['apple','grapes', 'orange','cherry', 'kiwi']

# Using map function
result = map(lambda x: x.title(), fruit)

for data in result:
    print(data, end=' ')
# Apple Grapes Orange Cherry Kiwi
```



## Filter function:

The filter function is used to filter any kind of data based on a given condition from a iterable.

```
filter-Function.py

fruit = ['Apple', 'Grapes', 'Orange', 'Cherry', 'kiwi']

# Using filter function
result = filter(lambda x: len(x)<5, fruit)

for data in result:
    print(data)
# kiwi
```



## Zip function:

The zip function combines elements of two or more iterables into one object.

You can use the resulting iterator to quickly and consistently solve common indexing problems.

```
zip-Function.py

fruit = ['Apple', 'Grapes', 'Orange', 'Cherry']
price = [100, 80, 40, 60]

# Using zip function
result = zip(fruit, price)
for info in result:
    print(info, end='')
# ('Apple', 100)('Grapes', 80)('Orange', 40)('Cherry', 60)
```





# Enumerate function:

Enumerate function helps you to keep track of your iterable elements index.

```
fruit = ['Apple', 'Grapes', 'Orange', 'Cherry']

# Using tradition way..
for i in range(len(fruit)):
    print(i, fruit[i])

# Using enumerate function
for idx, name in enumerate(fruit):
    print(idx, name)
```



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