5 Powerful functions

In Python

Introduction

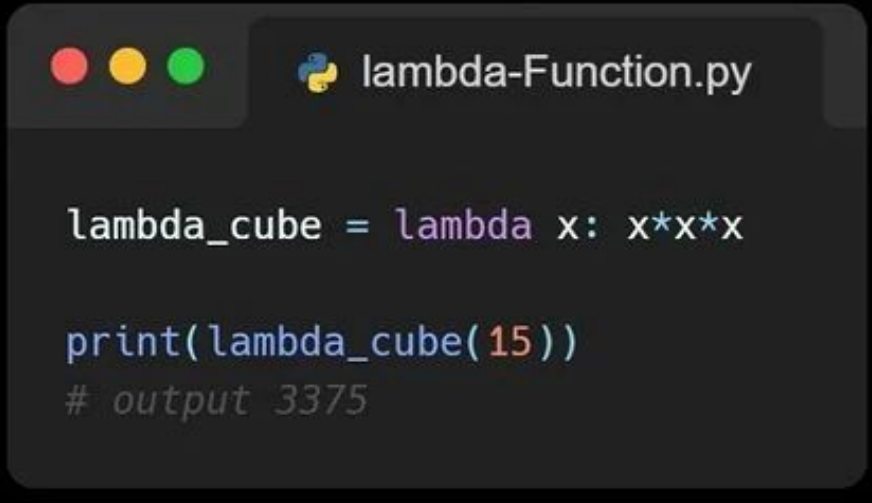
Python has a lot of built-in functions some of them are very useful and some of them are rerely used.

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.



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

```python
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

```python
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.

enumerate-Function.py

```python
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)
```