

INTRODUCTION

Lambda function is a nameless and anonymous function in Python that is defined without a name. It is also known as inline function. The concept is derived from lambda calculus. Lambda functions are used when we need a small function to be passed as an argument to a higher-order function.



SYNTAX

The basic syntax of a lambda function is:

lambda arguments: expression

The arguments are inputs to the function.

The **expression** is the return value of the

function.

Example: 1ambda x: x**2 will return the square

of the input x.





FILTERING WITH LAMBDA

The filter() function is used to filter out elements from a sequence based on a condition.

We can use lambda function as a condition in filter() function.

Example: list(filter(lambda x: x%2==,

[1,2,3,4,5,6])) will return [2, 4, 6].



MAPPING WITH LAMBDA

The map() function is used to apply a function to each element in a sequence and returns a new sequence with the modified elements. We can use lambda function as a function in map() function.

Example: list(map(lambda x: x**2,

Exomple: list(map(lambda x: x**2, [1,2,3,4,5,6])) will return [1, 4, 9, 16, 25, 36].

SORTING WITH LAMBDA

The sort() function is used to sort elements in a list. We can use lambda function as a key in sort() function to sort based on a specific property.

Exomple: sorted(['apple', 'banana', 'cherry'], key=lambda x: len(x)) will return ['apple', 'cherry', 'banana'].





CONCLUSION

Lambda function is a useful tool in Python that allows us to write concise and efficient code. It is commonly used with higher-order functions like filter(), map() and sort(). Understanding lambda function is essential for any Python developer.





THANKS!

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