Lambda

Functions
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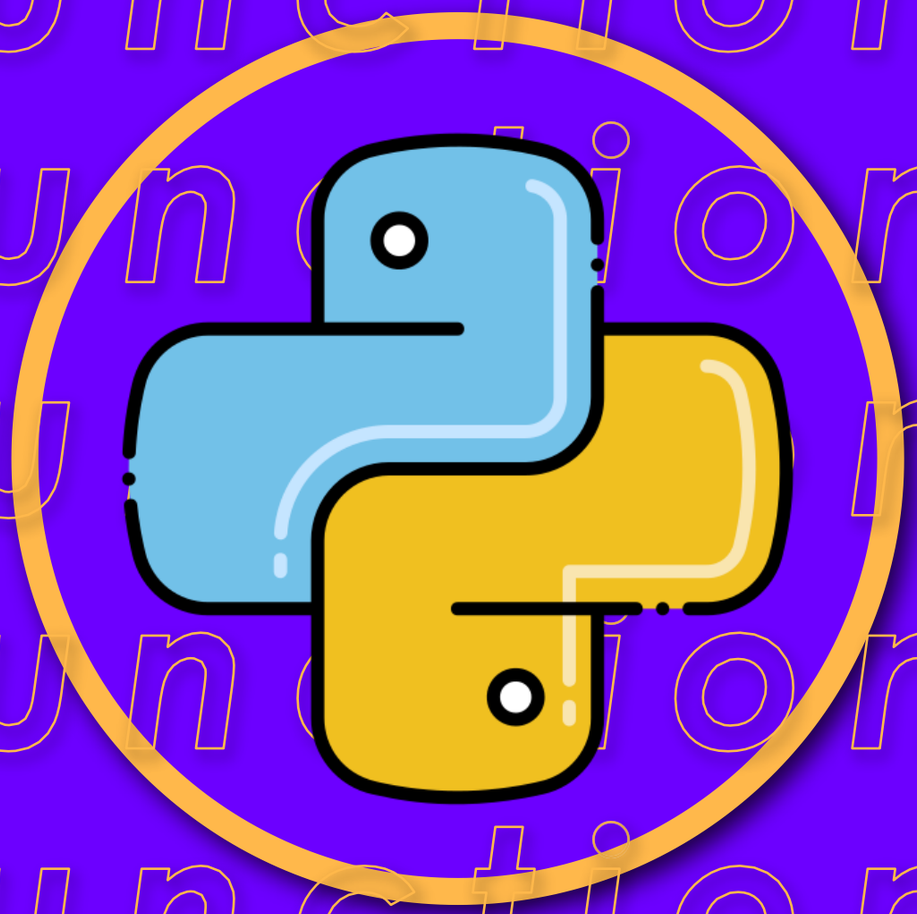

In Python

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Lambda Functions

Lambda functions, also known as anonymous functions or lambda expressions, are a feature in Python that affows you to create smaff, anonymous functions on the fly.

They are typicaffy used for short, simple operations where a fuff function definition using the "def" keyword would be unnecessary.

Lambda functions are defined using the "lambda" keyword, foffowed by one or more arguments, a colon, and an expression.

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Basic Lambda Function:

Here's an explanation with code example:

```python
# Lambda function that adds two numbers
add = lambda x, y: x + y
result = add(5, 3)
print(result)

# Output: 8
```

In this example, we defined a lambda function "add" that takes two arguments "x" and "y", and returns their sum.

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Lambda Functions in Sorting:

Lambda functions are commonly used with functions like "sorted()" and "filter()". For instance, you can use them to sort a list of dictionaries based on a specific key:

```python
# List of dictionaries
people = [
    {'name': 'Alice', 'age': 30},
    {'name': 'Bob', 'age': 25},
    {'name': 'Charlie', 'age': 35}
]

# Sort the list of dictionaries by age using a lambda function
sorted_people = sorted(people, key=lambda x: x['age'])
print(sorted_people)

# Output:
# [{'name': 'Bob', 'age': 25}, {'name': 'Alice', 'age': 30}, {'name': 'Charlie', 'age': 35}]
```

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Lambda Functions with filter():

You can use lambda functions with "filter()" to filter elements from an iterable based on a condition:

```python
# List of numbers
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9]

# Use a lambda function to filter even numbers
even_numbers = list(filter(lambda x: x % 2 == 0, numbers))
print(even_numbers)

# Output: [2, 4, 6, 8]
```

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Lambda Functions with map():

You can also use lambda functions with "map()" to apply a function to each element in an iterable:

```python
# List of numbers
numbers = [1, 2, 3, 4, 5]

# Use a lambda function to square each number
squared_numbers = list(map(lambda x: x ** 2, numbers))
print(squared_numbers)

# Output: [1, 4, 9, 16, 25]
```

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NOTE

Lambda functions are concise and handy for one-off operations, but for more complex functions, it's often better to use regular "def" functions to improve readability.