

Python



Using

Lambda in list Mapping
and Filtering

Map() !



```
numbers = [1, 2, 3, 4, 5]

# Doubling each element of the list using map and a lambda function

doubled_numbers = list(map(lambda x: x * 2, numbers))

print(doubled_numbers) # Output: [2, 4, 6, 8, 10]
```

Mapping:

Using `map()`, you can apply a function to each element of a list and return a new list with the results.

filter() !



```
numbers = [1, 2, 3, 4, 5]

# Filtering even numbers from the list using filter and a lambda function

even_numbers = list(filter(lambda x: x % 2 == 0, numbers))

print(even_numbers) # Output: [2, 4]
```

Filtering:

Using `filter()`, you can apply a function to each element of a list and return a new list containing only the elements that satisfy the condition.



filter() & map() !



```
numbers = [1, 2, 3, 4, 5]

# Squaring each even number from the list using map, filter, and a lambda function

squared_even_numbers = list(map(lambda x: x**2, filter(lambda x: x % 2 == 0, numbers)))

print(squared_even_numbers) # Output: [4, 16]
```

You can also combine both map() and filter() operations together

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