



```
>>> add = lambda x,  
>>> add(3, 4)  
7
```

Lambda functions clearly
explained!! 🚀

```
lambda arguments: expression
```



What are lambda functions ?

Simply put, they are small anonymous functions that are defined without a name.

Check out the syntax

Swipe 👉



@akshay_pachaar



```
lambda arguments: expression
```

 @akshay_pachaar

Lambda functions can have any number of arguments, but they can only have one expression.

The expression is executed and the result is returned.

Here is an example of a lambda function that adds two numbers

Swipe 👉



@akshay_pachaar



```
>>> add = lambda x, y: x + y
```

```
>>> add(3, 4)
```

```
7
```

 @akshay_pachaar

Lambda functions can be used wherever a function is required.

For Ex., they can be passed as an argument to a higher-order function.

Here is an example of using a lambda function with the built-in `'filter()'` function.

Swipe 👉



@akshay_pachaar

● ● ●

```
# `filter()` takes two inputs:  
# 1. function: function that tests if each element  
#    of a seq is true or not  
# 2. iterable: an iterable (eg. list) from which we  
#    need to filter values
```

```
>>> numbers = [1, 2, 3, 4, 5, 6]
```

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

```
>>> even_numbers  
[2, 4, 6]
```



```
# Cheers 🍺
```

 @akshay_pachaar

One of the most common application of Python
lambda:

Pandas 🐼 `df.apply()`

Applying a function across a DataFrame!

Swipe 👉



@akshay_pachaar


```
import pandas as pd
```

```
# Create a sample DataFrame
```

```
df = pd.DataFrame({'A': [1, 2, 3], 'B': [4, 5, 6], 'C': [7, 8, 9]})
```

```
# Print the original DataFrame
```

```
print(df)
```

	A	B	C
0	1	4	7
1	2	5	8
2	3	6	9

```
# Apply a function to the 'A' column to square the values
```

```
df['A'] = df['A'].apply(lambda x: x ** 2)
```

```
# Print the modified DataFrame
```

```
print(df)
```

	A	B	C
0	1	4	7
1	4	5	8
2	9	6	9

```
# Observe that the entries in column 'A' are squared now!
```

```
# Cheers! 🍷
```

```
# Hope you enjoyed reading!! 📖
```










Akshay 🚀

🐦 @akshay_pachaar

That's a wrap!

If you interested in:

- Python 
- Data Science 
- Machine Learning 
- MLOps 
- NLP 
- Computer Vision 
- LLMs 

Follow me on LinkedIn 

Everyday, I share tutorials on above topics!

Cheers!! 



@akshay_pachaar