Python Lambda

# What are lambda functions in Python?

In Python, an anonymous function is a function that is defined without a name.

While normal functions are defined using the def keyword in Python, anonymous functions are defined using the lambda keyword.

Hence, anonymous functions are also called lambda functions.

# How to use lambda Functions in Python?

A lambda function in python has the following syntax.

### lambda arguments: expression

• Lambda functions can have any number of arguments but only one expression. The expression is evaluated and returned. Lambda functions can be used wherever function objects are required.

```
#Multiply argument a with argument b and return the result:

x = lambda a, b : a * b

print(x(5, 6))
```

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```
#Add 10 to argument a, and return the result:

x = lambda a : a + 10

print(x(5))
```

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# Examples

## Why Use Lambda Functions?

- The power of lambda is better shown when you use them as an anonymous function inside another function.
- Say you have a function definition that takes one argument, and that argument will be multiplied with an unknown number:

```
def myfunc(n):
    return lambda a : a * n
```

```
# Use that function definition to
# make a function that always doubles
# the number you send in
def myfunc(n):
    return lambda a : a * n
mydoubler = myfunc(2)
print(mydoubler(11))
```

# Example