

## LAMBDA IN PYTHON





## Python Lambda

- A lambda function is a small anonymous function.
- A lambda function can take any number of arguments, but can only have one expression.



lambda arguments : expression

The expression is executed and the result is returned:



## **EXAMPLE**

```
x = lambda a : a + 10

print(x(5))

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

```
x = lambda a,b : a * b
print(x(5, 6))
# 30
```

Multiply argument a with argument b and return the result:



## 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:

EXAMPLE



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

mydoubler = myfunc(2)

print(mydoubler(11))
# 22
```

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

var1 = myfunc(2)
var2 = myfunc(3)

print(var1(11))
print(var2(11))

#22
#33
```