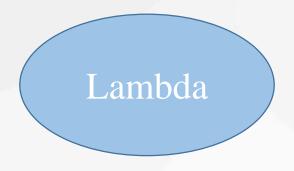
## **Functional Programming Tools**

- Python is not a functional programming language but it does incorporate some of its concepts alongside other programming paradigms.
- Python can support functional programming through some handy functional tools
- We'll take a look at some of functional tools provided by Python.



## **Lambda Functions**

• Lambda functions: a small anonymous function that appear in many functional languages

lambda arguments: expression

- Use the keyword *lambda* instead of *def*.
- Can be used wherever function objects are used.
- Restricted to one expression.
- Typically used with functional programming tools, like g=g(x).

```
def f(x):
    return x**2
print(f(8))
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g = lambda x:x**2
print(g(8))
```

## **Lambda Functions**

• Lambda functions:

lambda arguments: expression

A lambda function can take any number of arguments, but can only have one expression

x =lambda a, b : a \* b print(x(5, 6))

## **Lambda Functions**

• Lambda functions

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