

Full stack web development using python

lambda expression



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Agenda

- ① lambda expression
- ② How to use lambda?
- ③ recursion using lambda

lambda expression

- lambda is a keyword
- lambda expressions are syntactically restricted to a single expression

lambda input: expression

lambda a,b : a+b

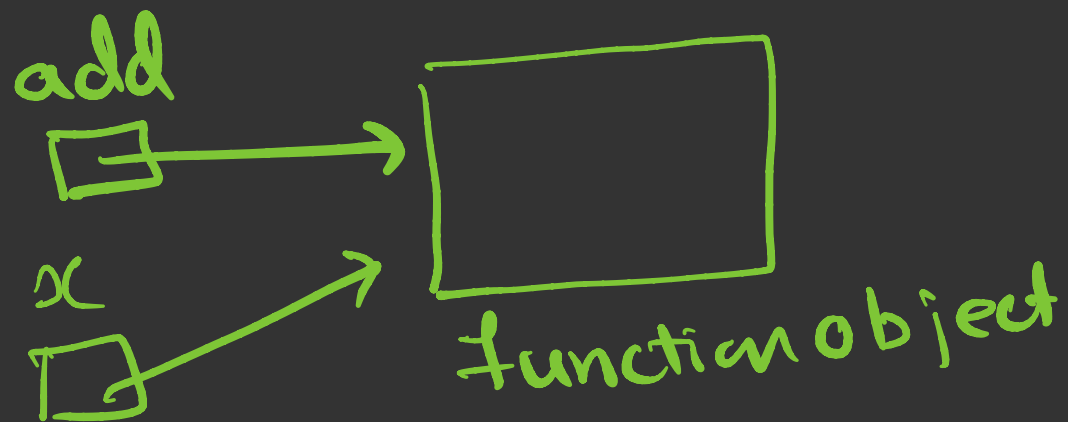
no need of def keyword

```
def add(a,b):  
    return a+b
```

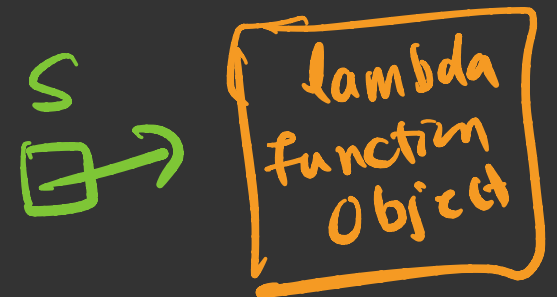
```
lambda a,b: a+b
```

```
x = add  
y = add(3,4)
```

```
(lambda a,b: a+b)(3,4)
```



```
x(3,4)
```



```
m = 7
```



Recursion using lambda

Calculate factorial of a number using recursive lambda expression

$f = \text{lambda } a : 1 \text{ if } a == 0 \text{ else } a * f(a-1)$