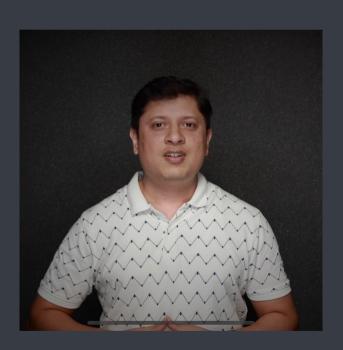# Full stack web development using python

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
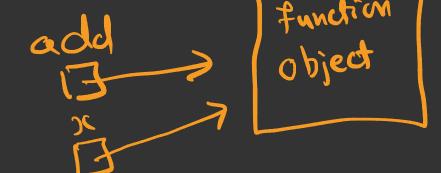
lambda input: expression

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)

add

[ ]

x

[ ]

→ function object

lambda function object

Recursion using lambda

Calculate factorial of a number using recursive lambda expression

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