

# Full stack web development using python

## More about functions



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# Agenda

- ① Default Arguments
- ② Function always return something
- ③ Positional and Keyword arguments
- ④ variable length arguments

## Default Arguments

Default value indicate that the function argument will take that value if no argument value is passed during the function call.

The default value is assigned by using the assignment (=) operator.

```
def add(a, b, c=0):
```

```
    s = a + b + c
```

```
    return s
```

```
print("sum is", add(5, 6, 10))
```

```
print("sum is", add(5, 6))
```

you cannot have non default argument  
after default argument

## Return Something

```
def f1():  
    print("Hello")
```

```
a = f1()
```

↖ what you are expecting in a?

None

## Return Something

```
def f1():  
    print("Hello")
```

```
a = f1()  
print(a)  
print(type(a))
```

# Positional vs Keyword Arguments

```
def f1(a, b):  
    print("a=", a, "b=", b)
```

you cannot have  
positional  
arguments  
after keyword  
arguments

$f1(2, 3) \rightarrow a=2 \ b=3$   
↖ 2 and 3 are called  
positional Arguments

$f1(b=3, 2)$

$f1(b=2, a=3) \rightarrow a=3 \ b=2$   
↖ ↗  
Keyword Arguments

## Variable length arguments

```
def f1(*t):
```

↑ tuple

$f_1(10)$

$f_1(10, 20)$

$f_1(10, 20, 30, 40)$