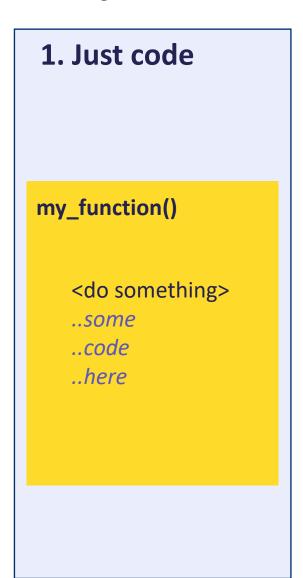
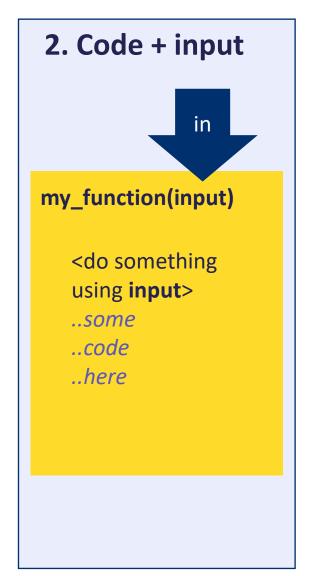
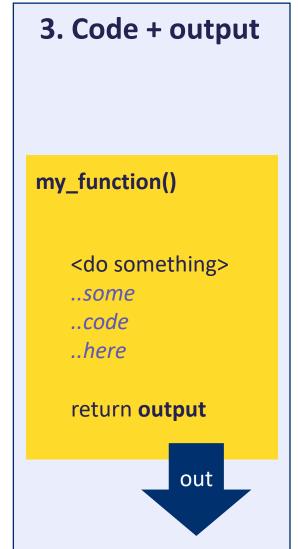
COMP636 – Software Development

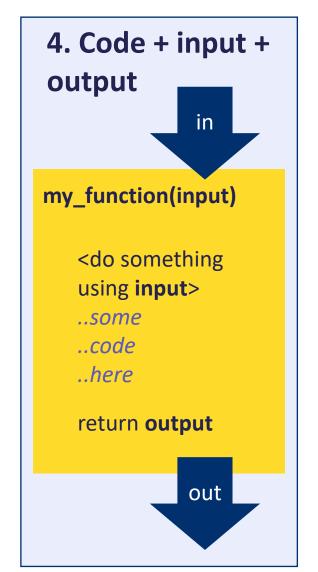


4 ways of interacting with functions









Variable 'scope'

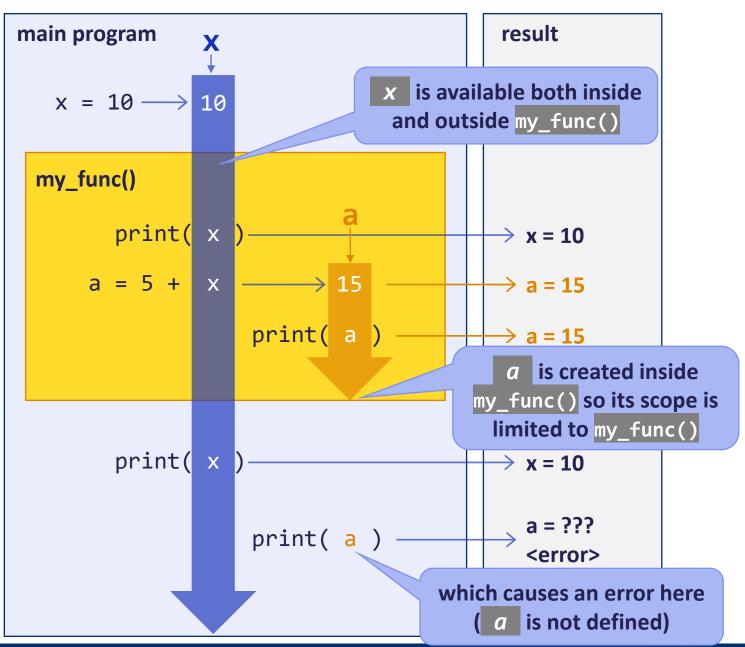
```
def my_func():
    print(x) # x = 10
    a = 5 + x
    print(a) # a = 15

x = 10

my_func() # call function

print(x) # x = 10

print(a) # error a not known
```



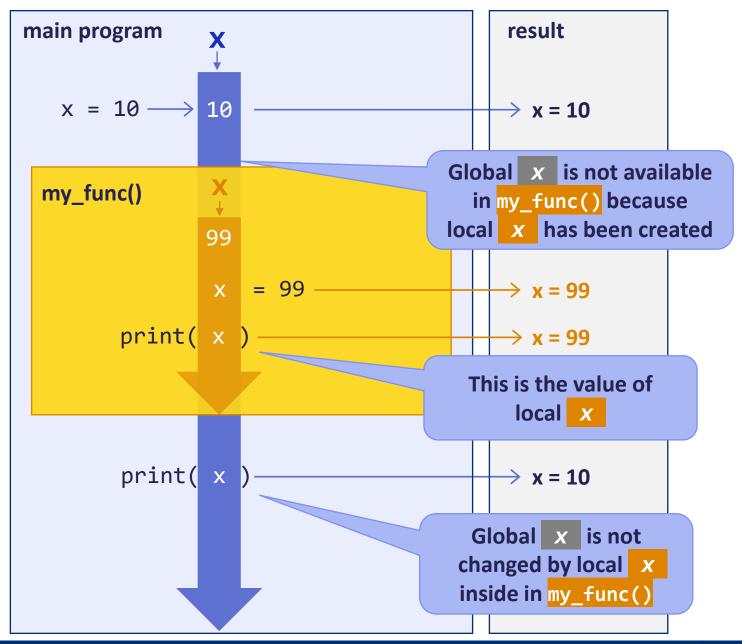
Variable 'scope'

```
def my_func():
    x = 99
    print(x) # a = 99

x = 10

my_func() # call function

print(x) # x = 10
```



Variable 'scope'

Rules:

- A variable assigned inside a function is not available outside that function
 - Even if it has the same name as a global variable
 - Unless global <variable_name> precedes the assignment within the function
- Global variables with a value before the function call can be *read* inside the function, but not altered (without the global keyword, as above)