RETURNAND PRINT

An Introduction to Computer Science



Returning and Printing

- Printing: Putting things on the console vs.
- Returning: Substitute calling expression with a value



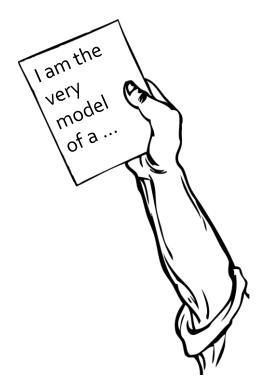
Metaphor

Print



I am the very model of a modern python programmer, I'm well versed with returning and printing and also scoping...

Return





Printing

```
def calculate grade(grade:int, weight:float)->float:
    curved = 100 * grade ** .5
    print(curved) —
    final = curved * weight
                                       Console
    return final
                                       44.0
```

Returning

```
def calculate_grade(grade:int, weight:float)->float:
    curved = 10 * grade ** .5
    print(curved)
    final = curved * weight
    return final
    calculate_grade(o4, .1)
    8.0
```



Printing without Explicit Return

```
def calculate_grade(grade:int, weight:float)->float:
    curved = 10 * grade ** .5
    final = curved * weight
    print(final)

final_grade = calculate_grade(64, .1)

final grade will be None
```



Syntax

Printing

```
print("Hello World")
```

Needs parentheses

Returning

```
return "A value"
```

No parentheses



When to Return

Write a function that consumes a string and **produces** that string backwards.





When to Print

Write a function that consumes a string and prints it out backwards

Print!

Write a function that consumes a string and produces that string backwards; then print the result of calling the function

Call, Return, Print

