CMPSC 100 SPRING 2021

Functions

COURSE INFORMATION

- Grades - incoming.
  - Probably Wednesday.
  - Underpromise, over-deliver.
- As posted to #general, assignment and quiz are posted.
  - Much excite.
- This week's assignments features a different kind.
  - I'll show it to you now.
  - cc: Tyler for the suggestion
    - Address your fan mail to him; hate mail to me

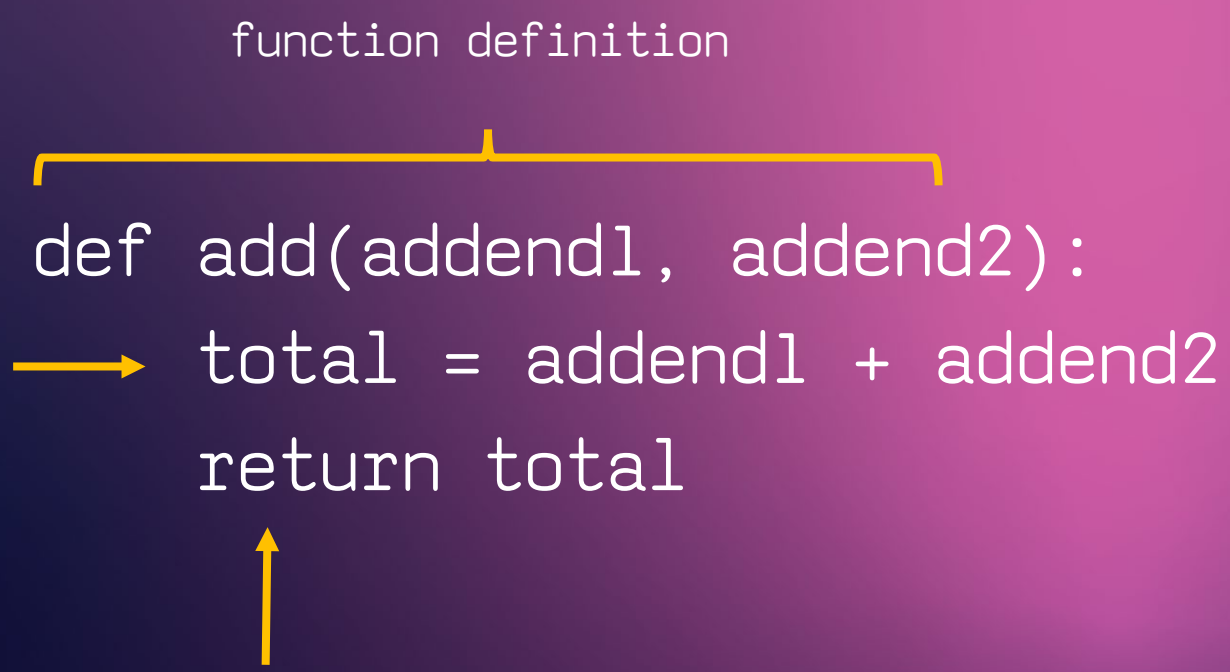
Functions

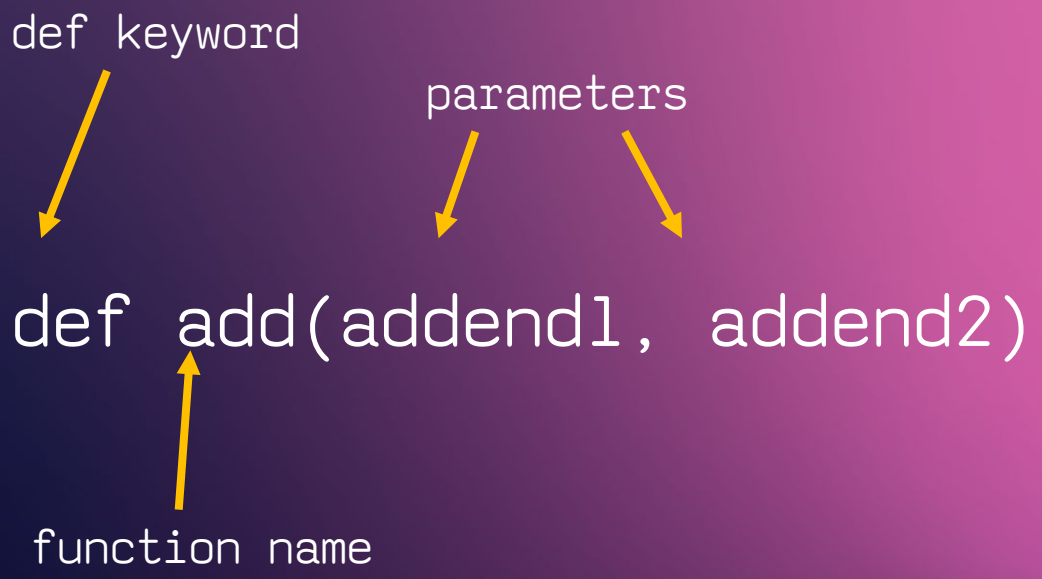
Named procedures that accept parameters.

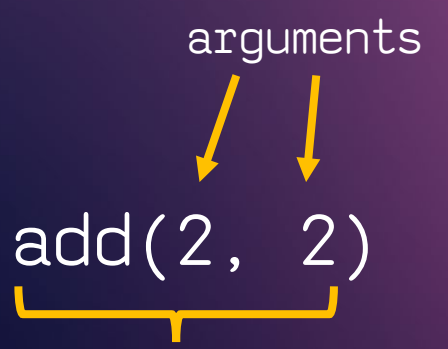
Use case:

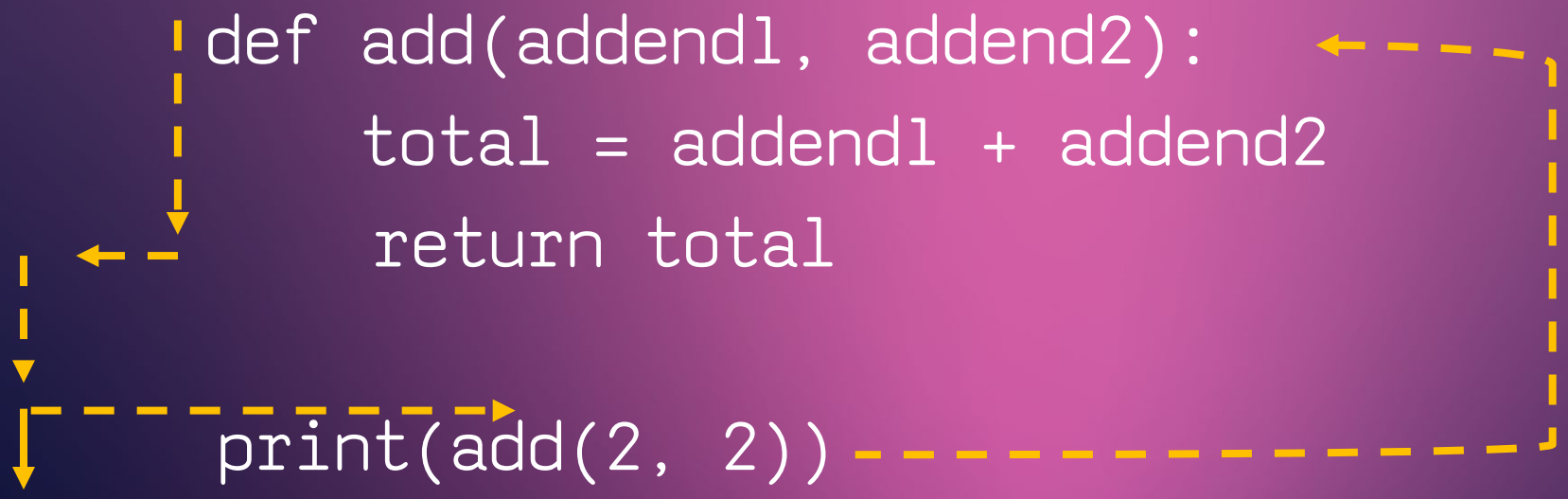
I can add 2 + 2 once very easily.

What if I want to repeat
it 120 times, and it’s not
always 2 + 2?


function definition
def add(addend1, addend2):
total = addend1 + addend2
return total
return statement


def keyword
parameters
def add(addend1, addend2)
function name


arguments
add(2, 2)
function call


def add(addend1, addend2):
total = addend1 + addend2
return total
print(add(2, 2))

```
> 4
```

What if I don’t know how many numbers I’m going to add?

```
def add (*addends):
    total = 0
    for addend in addends:
        total += addend
    return total
```


```
def best_cat_name(name="Ulysses"):
    print(f"The best cat name is: {name}")

best_cat_name("Bert") # <-- lies, but we need an example

best_cat_name()
```

GROUP INSTRUCTIONS

- Your task is to complete the code in today's final activity as a group
- I will group you quasi-randomly
- Dylan and I will be checking in on groups
  - We'll likely start with an "explain the task" conversation