Week 5

Functions & More

Defining a function

- def funName(arg1, arg2):
 - arg: function input
- function body



- return statement
- call function by using its name and passing arguments

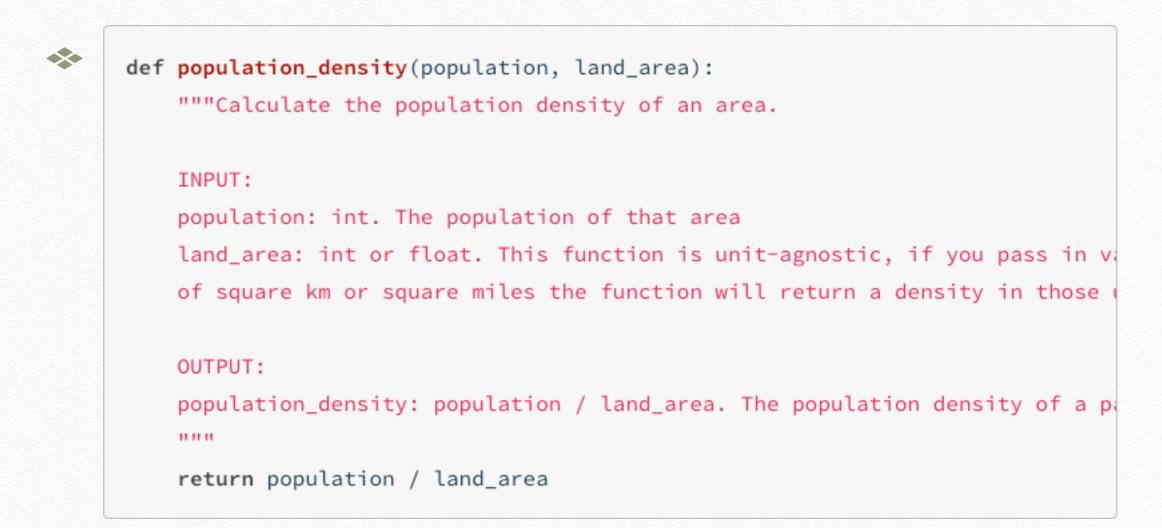
Quiz

- write a function that gets two numbers and returns its sum
- write a function that get a list containing some numbers and returns its sum

Variable Scope

Global Scope

Docstrings



Lambda Expression

```
def multiply(x, y):
    return x * y
```



```
multiply = lambda x, y: x * y
```



multiply(4, 7)

Quiz

 Rewrite the code and replace mean function with a lambda expression

Quiz

Rewrite the code and replace is_short function with a lambda expression defined within filter function call

```
cities = ["New York City", "Los Angeles", "Chicago", "Mountain View", "Denver", "Bosto

def is_short(name):
    return len(name) < 10

short_cities = list(filter(is_short, cities))
print(short_cities)</pre>
```

Dooz v3

- Rewrite Dooz and use a function called checkWinner that gets the dooz table and returns:
 - O if there is not winner
 - ♣ 1 if user 1 won
 - * 2 if user 2 won