Review:

1. What is the function? What is the argument? Bonus: What is the return value?

```
len ('super bowl')
```

2. What do you think will happen in this program?

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

Review:

3. Wait - what's a function again?

From last Monday:

Functions are like little machines.

A function is a statement or sequence of statements that perform a computation.

Writing our own functions.

Time for an anatomy lesson!

def means function definition.

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

The name of the function is **print_lyrics**

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

This function doesn't take any arguments. The () is empty.

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

If it did, that's where they would go.

The first line of the function definition is called the **header**. It always ends with a colon.

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

The rest is called the **body**. The body must be indented.

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

print_lyrics()
```

```
I'm a lumberjack, and I'm okay.
I sleep all night and I work all day.
```



Return value

```
print_lyrics():
    print "I'm a lumberjack, and I'm okay."
    print "I sleep all night and I work all day."

def repeat_lyrics():
    print_lyrics()
    print_lyrics()

repeat_lyrics()
```

What's the return value?

Answer:

```
I'm a lumberjack, and I'm okay.
I sleep all night and I work all day.
I'm a lumberjack, and I'm okay.
I sleep all night and I work all day.
```

```
cost = raw_input('How much does a pizza cost?')
    cost = float(cost)
    print cost
pizza_cost()
```

What's the return value?

(Provide your own answer to the pizza question.)

```
cost = raw_input('How much does a pizza cost?')
    cost = float(cost)
    print cost
pizza_cost()
```

How much does a pizza cost?11
11.0

How can we simplify the body of the function to write it in only 2 lines?

Your turn:

- * Unit 2, Exercise 2
- * Quiz on functions on Friday, February 6.