**Python 1 Green -  Functions - Part 1**

```
def someStuff():
     print("Hello"*4)
     print("What's up!")

someStuff()
someStuff()
someStuff()
```
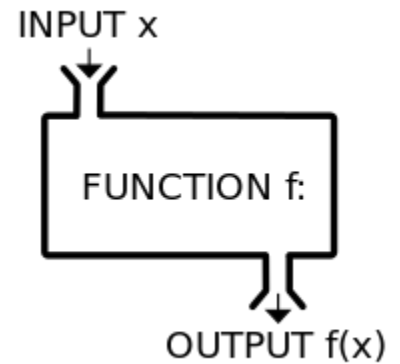
What would happen if you wrote this?

```
def stuff():
     print("Potato " * 3)
     print("Pizza!")

def moreStuff():
     stuff()
     stuff()
     stuff()

moreStuff()
```

INPUT x

FUNCTION f:

OUTPUT f(x)

**Skill 2: Input Parameters**

```
def multiply7(num):
      print(num*7)

multiply7(3)
multiply7(12)

def printLine(num_hash):
      print("#"*num_hash)

printLine(12)
printLine(32)
```

Challenges:

A. Use `printLine(<num>)` to make this:

```
##
####
###########
###########
######
##
```

B. Create a function that makes a picture with hash lines.  Here's an example, **you make your own!**

```
def makeF():
      printLine(6)
      printLine(6)
      printLine(2)
      printLine(2)
      printLine(6)
      printLine(6)
      printLine(2)
      printLine(2)
      printLine(2)
      printLine(2)
```
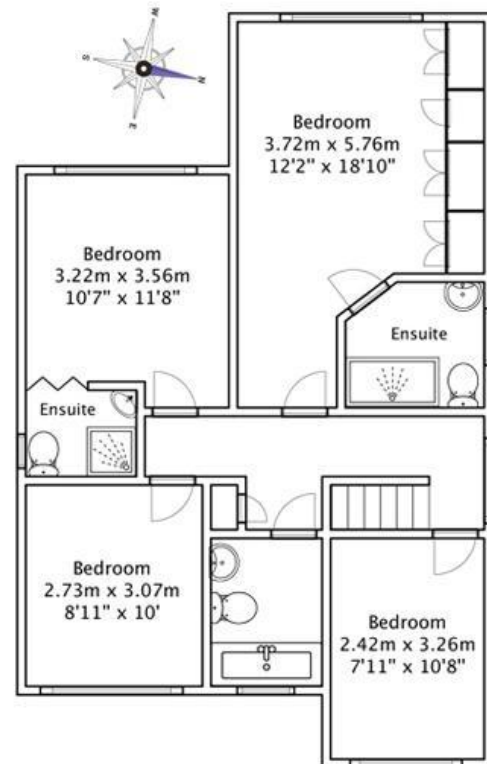
**Skill 3: Return**

Usually, we want to use functions to return values for use later.

```
def areaRect(len, wid):
        return len*wid
```

To use this function, we'll have to print out the result separately:

```
print(areaRect(4, 6))
```

Challenge: Use `areaRect` to find the approximate total floor area of this house in square metres (just use the measurements given, the other areas don't count):

Living Room
3.72m x 5.76m
12'2" x 18'10"

Family Room
3.10m x 3.57m
10'2" x 11'8"

Utility
1.58m x
4.52m
5'2" x
14'10"

Kitchen
2.70m x
3.98m
8'10" x
13'

Garage
2.45m x 4.86m
8' x 15'11"

Bedroom
3.72m x 5.76m
12'2" x 18'10"

Bedroom
3.22m x 3.56m
10'7" x 11'8"

Ensuite

Ensuite

Bedroom
2.73m x 3.07m
8'11" x 10'

Bedroom
2.42m x 3.26m
7'11" x 10'8"

**Practice:**

Write a function `box_maker(num)` that takes in the size of a box, and prints out a box of that size in stars.  Here's an example:

```
box_maker(5)
*****
*   *
*   *
*   *
*****
```

Why are functions used?

How do you call a function?