



Learning Exercise: What will this program do?

Try to predict what the code will do *without* running it...

code/defs.py

```
defs.py x
1      # What does this program do?
2
3      def double(x):
4          return 2 * x
5
6      def quad(x):
7          return double(double(x))
8
9      def hello(name):
10         print("Hello", name + ", how are you today?")
11
12     def repeat(string, n):
13         return string * n
14
15     def square(string, n):
16         for i in range(n):
17             print(repeat(string, n))
18
19     print(double(5))
20     print(quad(4))
21     hello("Joe")
22     print(repeat("hi", 10))
23     square("x", 4)
```

Questions:

1. What do you think **def** & **return** do?
2. What's the difference between **return** & **print**?
3. In the code above, identify the following:
 - a. Formal parameters
 - b. Actual parameters
 - c. Void functions
 - d. Fruitful functions