Return Statement

return Statement

return None

Some functions return nothing (for example the print() function). To achieve this you can either return None, leave the return value blank after return, or put no return statement at all.

```
[11]: def none1():
    return

def none2():
    return None

def none3():
    x = 2 #Needs code to work

[13]: type(none1())

[13]: NoneType
[14]: type(none2())

[14]: NoneType
[15]: type(none3())
```

return Breaks Out of the Function

It was stated above that the **return** statement breaks out of the function. This means that anything that comes directly after a **return** inside the function body will not execute. Consider the following example to illustrate this:

```
[16]: def message():
    print('This code will execute')
    return
    print('This code will not execute')
```

```
[17]: message()
```

This code will execute

It can be useful to use this feature of return to break out of a loop, or even to ignore the else or elif parts of an if statement.

For example, consider the function that checks if it's argument is even or odd:

```
[1]: def is_even(value):
    if value%2 == 0:
        return True
    else:
        return False
```

```
[2]: is_even(3)
```

[2]: False

```
[3]: is_even(6)
```

[3]: True

The else part of the function is unnecessary:

```
[1]: def is_even(value):
    if value%2 == 0:
        return True
    return False
```

```
[18]: is_even(3)
```

[18]: False