

Assignment o remarks

1. Does print ever execute here?

```
def Add(x,y):  
    z = x+y  
    return z  
    print(z)
```

2. What does this function return?

```
def Add(x ,y):  
    print(x+y)  
    return
```

3. What does the if/else block add to this code?

```
def print_dict(inp):  
    if type(inp.keys()) == int:  
        return list((inp.values()))  
    else:  
        return list((inp.keys()))
```

4. This function doesn't return what you expect, why?

```
def reverse_a_list(l):  
    li = l.reverse()  
    return li
```

1. No - a function exits when it reaches a `return` statement. If the intention is to print something it should be placed before `return`. The proper way to write this function is

```
def Add(x,y):  
    z = x+y  
    return z
```

2. It returns `None`, not the expected $x + y$.
3. Nothing (except slowing down the program a bit). The `.keys` method returns a list-like object. It might be empty or hold a single item, but it is never an integer. A completely equivalent way to write this would be

```
def print_dict(inp):  
    return list((inp.keys()))
```

4. The `.reverse` method does an in-place operation and returns `None`. Thus the line `li=l.reverse()` reverses `l` and sets `li` to `None`. To get the desired output we could instead do

```
def reverse_a_list(l):  
    l.reverse()  
    return l
```