Fython's Sneaky Mutable Default Arguments!



The Mystery Code:

What Just Happened?

- When we call add_item(1), Python creates my_list once and stores it.
- When we call add_item(2), it doesn't create a new list; it just modifies the same one!

Why It Happened?

This happens because **default arguments in Python are evaluated only once** when the function is defined, not each time it's called.

💋 Fix It Like a Pro!

Instead of using a mutable list as a default argument, use **None** and create a new list inside the function:

```
In [50]: def add_item(item, my_list=None):
    if my_list is None:
        my_list = [] # Create a new list each time
    my_list.append(item)
    return my_list

print(add_item(1))
print(add_item(2))

Output: [1]
[2]
```

6 Golden Rule:

- X Avoid mutable default arguments like lists or dictionaries. Use " as a placeholder and initialize inside the function.
- 💬 Which Python quirks have surprised you the most? Drop a comment! 🤲