**Common Errors**

1. Students don’t know the difference between strings and integers. I found a lot of students passing integers as strings and then trying to multiply it. One example would be:

**“8”\*2 or “8”\*”2”**

1. Students think that they can only write strings in print statements. I found many people doing this:

**x=print(“Tatheer”)**

They don’t know that they can write it **as x=”Tatheer”** too.

1. When it comes to functions, a lot of students tried passing strings without quotes. For example, they would invoke the function like this**: func\_name(shampoo) instead of** **func\_name(“shampoo”)**
2. In functions, I found the following issues:

* People don’t know what return does. They don’t understand the exact functionality of return.
* People don’t know how to invoke a function that returns something. I found so many students invoking the functions like this: **func\_name(100, 8, 9)** instead of **x=func\_name(100, 8, 9**). They don’t understand why it is important to save the returned value somewhere.
* A lot of students thought that returning the value means printing it WITHIN THE FUNCTIONS.
* People who do understand that they need to save the returned value in a variable don’t know how to invoke a function that is not returning anything. I found so many people writing something similar to this:

**y=func\_name(“Tatheer”)**

**print(y),**

where func\_name() doesn’t return anything so NONE was printed in their output.

1. Some of my students invoked the function twice just because I said invoke func1 inside func2. I don’t understand why a lot of the students had this error.
2. When I asked them to invoke func1 inside func2, they DEFINED func1 inside func2 for some reason.
3. In Lab 2, when you had asked them to pass different values in each invocation, they did something like this:

def func\_name(P=1000, i=10, n=3, f=0){

#Code here

}

Then

def func\_name(P=2000, i=5, n=2, f=1){

#Code here

}

Then

def func\_name(P=2000, i=5, n=2, f=1){

#Code here

}

In a nutshell, they don’t know you have to define the function once and you can call it multiple times.