

# OOP\_PCOM7E September 2022 Object Oriented Programming

## Unit 10: Testing Code in Practice

### Activity 1

Run the following code using pylint and identify the errors.

```
def factorial (x)
    if x == 1:
        return 1

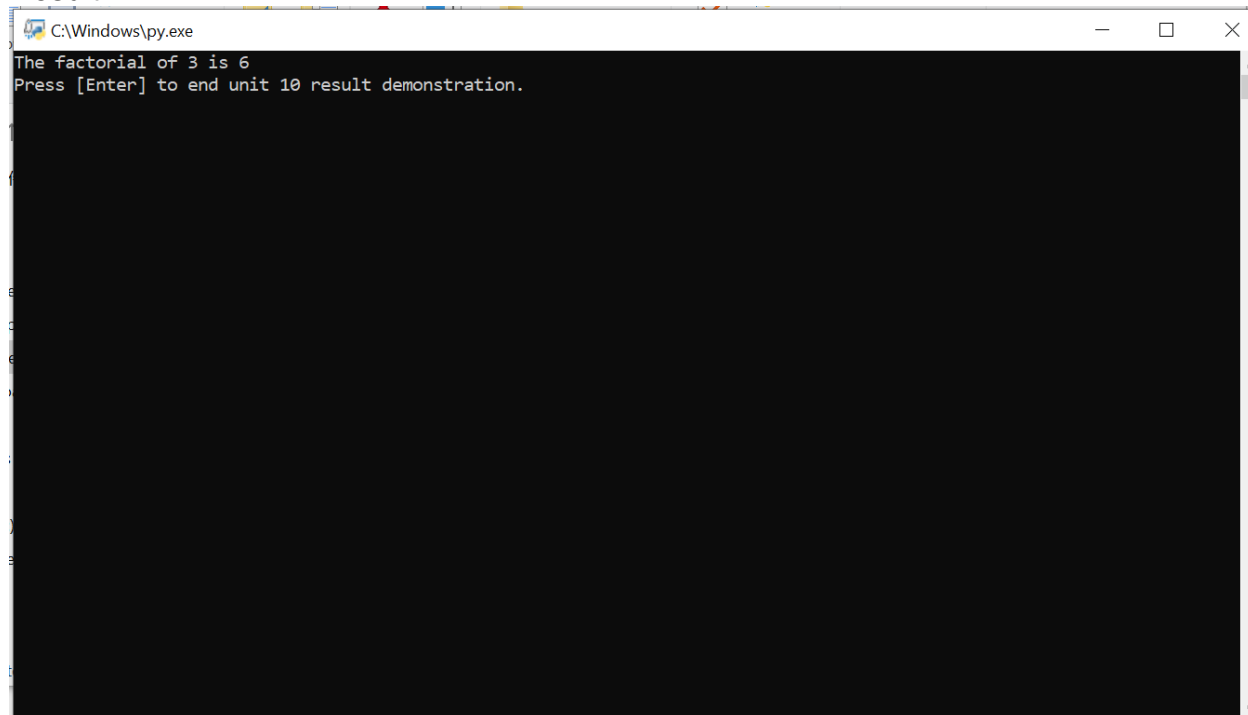
    else:
        return (x * factorial(x-1))

num = 3
print("The factorial of", num, "is", factorial(num))
Source: Progamiz. (n.d.) Python Recursion.
```

### Notes to readers:

This exercise request me to debug a program. The amended program is set out in program section below and the amended part is highlighted in yellow (adding a ":" to the end of the first roll). Also in yellow is an additional line at the end of the codes in order to facilitate printing of the result. The Result is set out below to demonstrate that the amended program is working. The whole source code is being included in a separate file, if you are interested in it please refer to the separate file.

### Result



## Program

```
def factorial (x):  
    if x == 1:  
        return 1  
  
    else:  
        return (x * factorial(x-1))  
  
num = 3  
print("The factorial of", num, "is", factorial(num))  
#Source: Progamiz. (n.d.) Python Recursion.  
input("Press [Enter] to end unit 10 result demonstration.")
```