* **Recursion** :- Recursion is a function that call itself and we need to write a base case.

```
def recursion():
    print ("Hello World")
    recursion().
```

* Base case is the final stop point where loop need to stop calling itself. It help us to stop our infinite loop.

function calling itself.

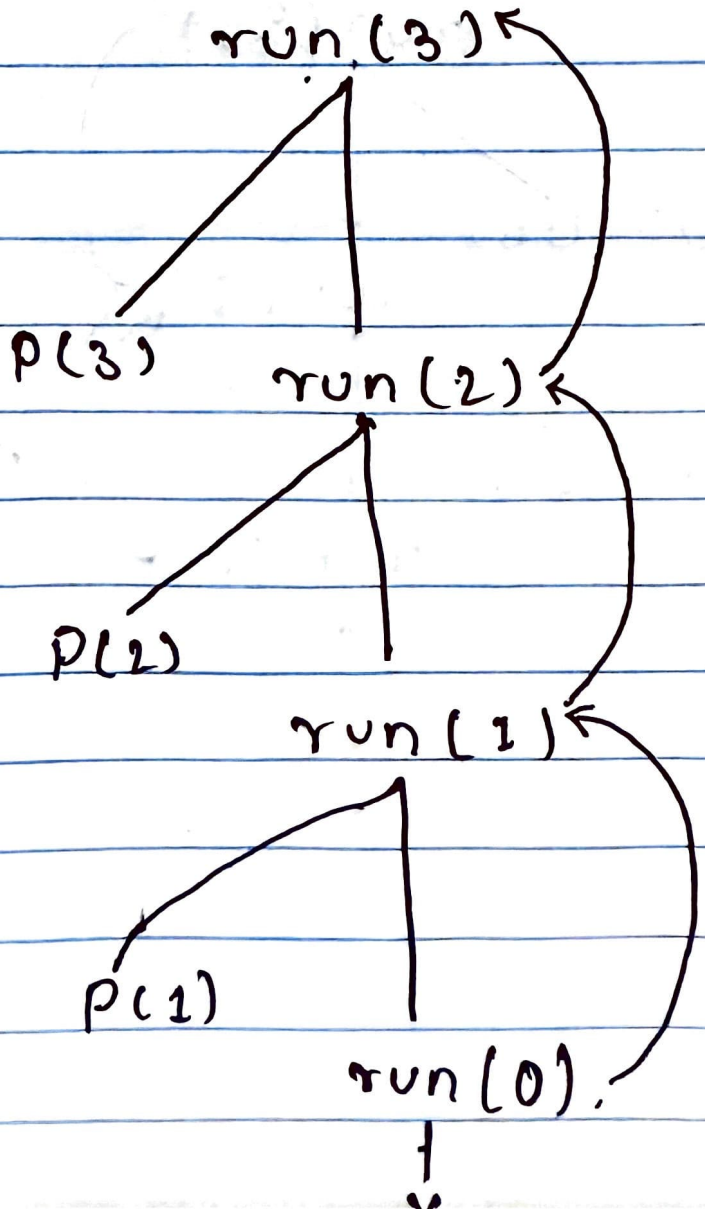
```
def run(n):
    if n == 0:
        return.

    print(n)
    run(n-1).
```

This is a base case.

Updating the value of parameter

n = 3

run(n).

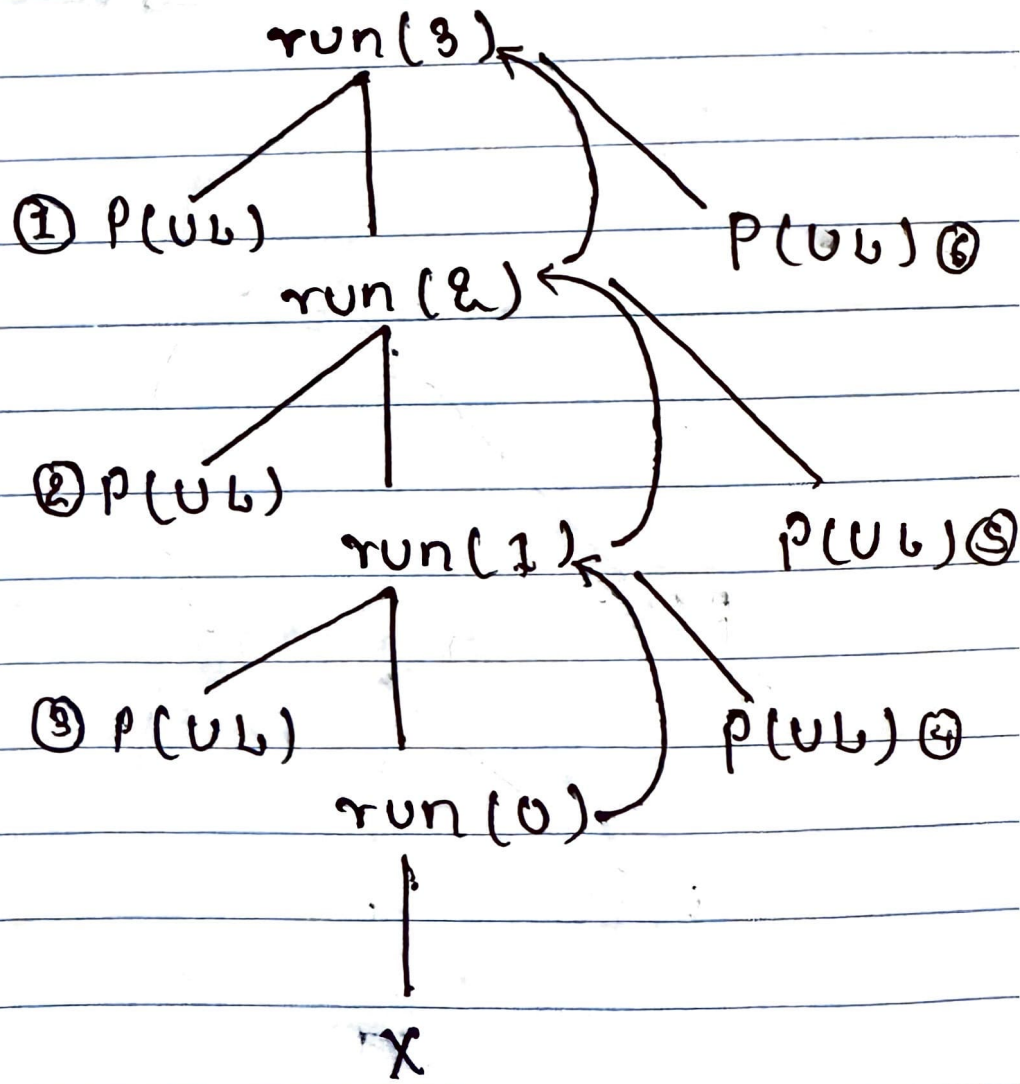


```
def run(n):
    if n == 0:
        return
    print ("UL")
    run(n-1)
    print ("UL").
```

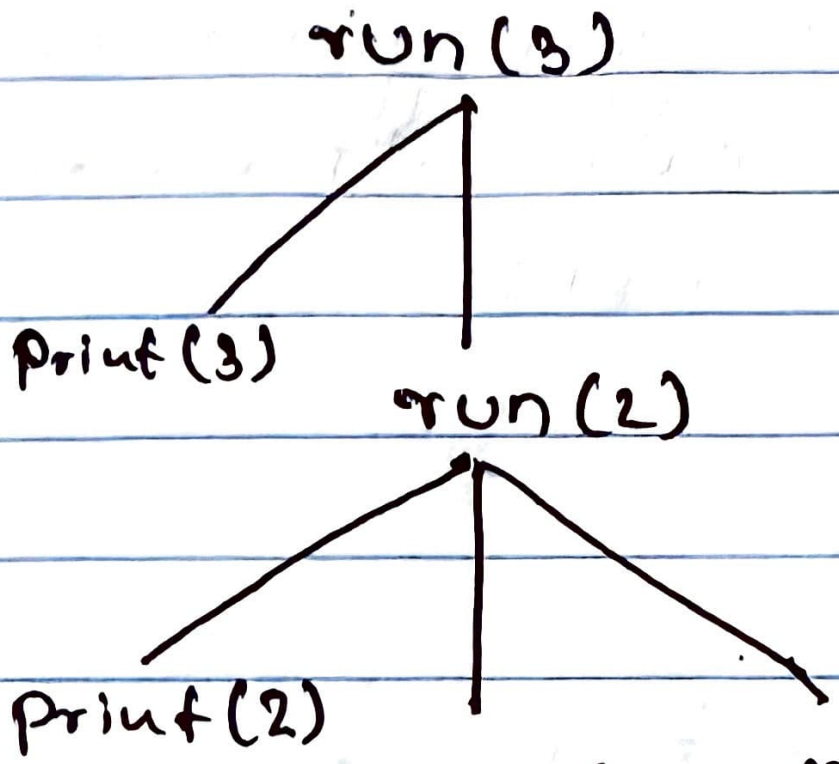
let's call

n = 3

run(n)



output: UL
UL
UL
UL
UL
UL.




```
def run(n):
    if n == 0:
        return.
    Print(n)
    run(n-1)
    run(n-1)
```

output: 3
2
1
1
&
2