```
#Example 01

#Example 01

#Write a function which recursively print numbers from 1 to n.

def recursiveMethod(parameter):

if parameter < 1:

print("Exit condition Satisfied. Exited.")

else:

recursiveMethod(parameter-1)

print(parameter)

print(">> Output of Example 01 <<")

recursiveMethod(5)
```

Recursion

- A method call itself.
- Exit condition to exit from infinite loop.



Stack

LIFO – Last in first out







Push recursiveMethod(1) **PUSH** recursiveMethod(2) recursiveMethod(4) recursiveMethod(3) recursiveMethod(3) recursiveMethod(2) recursiveMethod(1) recursiveMethod(4) All function pushed in

As 0 is less than 1 no need to store recursiveMethod(0) in stack.



Pop recursiveMethod(4) recursiveMethod(3) recursiveMethod(2) recursiveMethod(2) recursiveMethod(3) recursiveMethod(1) recursiveMethod(1) recursiveMethod(2) recursiveMethod(1) recursiveMethod(1) All function popped out



- Output:
- Exit condition Satisfied. Exited.
- 1
- **2**
- **3**
- **4**
- **5**

