

Q.7) Write a Java program to print 1 to N number -
 a) without using loop.

Algorithm

Step 1 - Take input, num to print 0 - num.
 Step 2 - Directly call to Recursive function
 (`printnum(int num)`).

- 1 \rightarrow check if $num == 0$ if yes print '0' and return to main else step 2 of `printnum()`;
- 2 \rightarrow Recursive call \rightarrow `printnum(num-1)`;
- 3 \rightarrow print \rightarrow num \rightarrow next return to upper value method.
- 4 \rightarrow Keep repeating until the control does not reach to the bottom of stack.
- 5 \rightarrow Print last value & return the control to main.

Steps

Exit.

