

Recursive function

- 1) Write a program where the recursive function calculates the sum of N numbers

```
numbers.sh
~/
Open ▾
1 #!/bin/bash
2
3 sum_num()
4 {
5     x=$1
6     if [ $x -eq 1 ]; then
7         echo "1"
8     else
9         d=$((x-1))
10        d=$(sum_num $d)
11        d=$((d + x))
12        echo $d
13    fi
14 }
15
16 read -p "Enter the number : " n
17 echo "The sum of first $n natural numbers is : $(sum_num $n)"
18
```

```
bgmadhavan@bgm-virtual-mac
bgmadhavan@bgm-virtual-machine:~$ ./numbers.sh
Enter the number : 10
The sum of first 10 natural numbers is : 55
```