**Recursive function**

1. **Write a program where the recursive function calculates the sum of N numbers**

**calculate\_sum() {**

**local n=$1**

**if [ $n -eq 0 ]; then**

**echo 0**

**else**

**local prev=$(calculate\_sum $((n - 1)))**

**local current=$((prev + n))**

**echo $current**

**fi**

**}**

**read -p "Enter the value of N: " N**

**result=$(calculate\_sum $N)**

**echo "The sum of first $N numbers is: $result"**

**o/p**

