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### 1.Sum of N elements using Recursion

```
//sum of N elements using Recursion
#include <stdio.h>

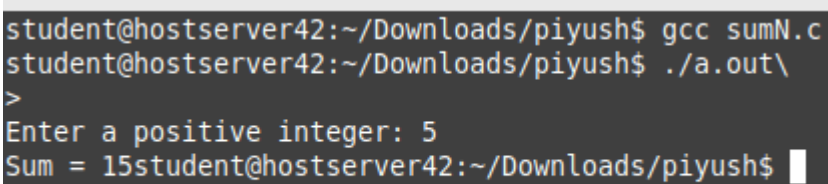
int addNumbers(int n);

int main() {

    int num;
    printf("Enter a positive integer: ");
    scanf("%d", &num);
    printf("Sum = %d", addNumbers(num));
    return 0;
}

int addNumbers(int n) {
    if (n != 0)
        return n + addNumbers(n - 1);
    else
        return n;
}
```

## OUTPUT



```
student@hostserver42:~/Downloads/piyush$ gcc sumN.c
student@hostserver42:~/Downloads/piyush$ ./a.out\
>
Enter a positive integer: 5
Sum = 15student@hostserver42:~/Downloads/piyush$
```