

Write a program to find Sum of N natural numbers

Description

Get the input from the user for the value of n and then find the sum of first n natural numbers.

e.g. let the n value = 5

then first 5 natural numbers are 1,2,3,4,5 for which we need to find the sum

Therefore sum of first 5 natural numbers is $1+2+3+4+5 = 15$

Input

4

Output

10

C program

```
#include <stdio.h>
int main()
{
    int num,sum=0;
    printf("Enter the number");
    scanf("%d",&num);
    for(int i=1;i<=num;i++)
        sum=sum+i;
    printf("%d",sum);
    return 0;
}
```

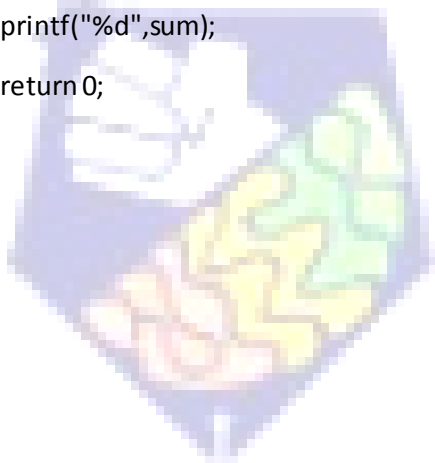
Method 2

```
#include <stdio.h>
int Sum(int n)
{
```

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```
if (n!=0)
    return n + Sum(n-1);
else
    return 0;
}

int main()
{
    int num,sum=0;
    printf("Enter the number: ");
    scanf("%d",&num);
    sum=Sum(num);
    printf("%d",sum);
    return 0;
}
```



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C++ Program

Method 1

```
#include <iostream>

using namespace std;

int main()
{
    int num,sum=0;
    cout<<"Enter the number: ";
    cin>>num;
    for(int i=1;i<=num;i++)
        sum=sum+i;
    cout<<sum;
    return 0;
}
```

Method 2

```
#include <iostream>
using namespace std;

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

int main()
{
    int num,sum=0;
    cout<<"Enter the number: ";
```

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```
cin>>num;  
cout<<Sum(num);  
return 0;  
}
```



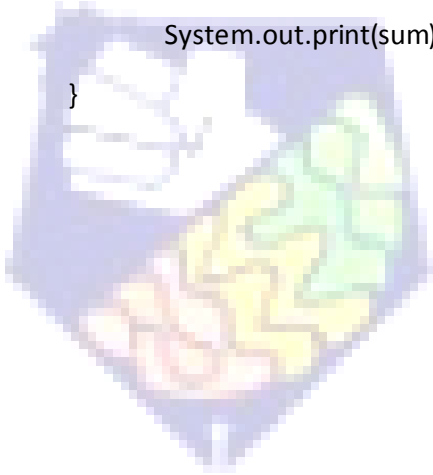
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Java

```
import java.util.Scanner;

public class Main
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();
        int sum = 0;
        for(int i=0; i<=num; i++)
            sum = sum + i;
        System.out.print(sum);
    }
}
```



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Python

Method 1

```
num=int(input("Enter a number: "))  
Sum=0  
for i in range(1,num+1):  
    Sum=Sum+i  
print(Sum)
```

Method 2

```
def Sum(num):  
    if num!=0:  
        return num + Sum(num-1)  
    else:  
        return 0  
num=int(input("Enter a number: "))  
value=Sum(num)  
print(value)
```

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