

## Talent Battle 100 Days Coding Series

Write a program to find Sum of digits of a number

### Description

Get a number from user and then find the sum of the digits in the given number.

E.g. let the number = 341

Sum of digits is  $3+4+1= 8$

### Input

4521

### Output

12

### C Program

#### Method 1

```
#include <stdio.h>

int main()
{
    int num, sum = 0;
    printf("Enter a number: ");
    scanf("%d", &num);
    while(num != 0)
    {
        sum = sum + num % 10;
        num = num / 10;
    }
    printf("%d", sum);
    return 0;
}
```

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## Method 2

```
#include <stdio.h>

int SumOfDigits(int n, int sum)
{
    if (n==0)
        return sum;
    else
    {
        sum=sum+n%10;
        return SumOfDigits(n/10,sum);
    }
}

int main()
{
    int num, sum = 0;
    printf("Enter a number: ");
    scanf("%d",&num);

    int result = SumOfDigits(num,sum);
    printf("%d",result);
    return 0;
}
```

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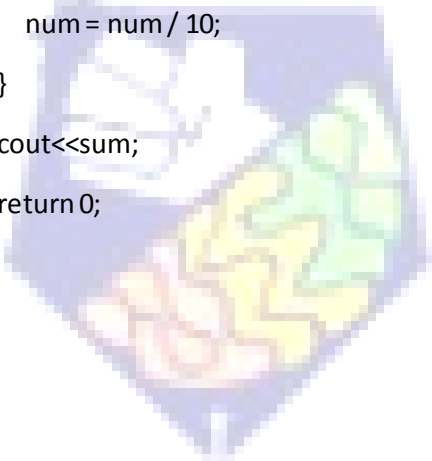
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### C++ Program

```
#include <iostream>

using namespace std;

int main()
{
    int num, sum = 0;
    cout<<"Enter a number: ";
    cin>>num;
    while(num!=0)
    {
        sum=sum+ num % 10;
        num = num / 10;
    }
    cout<<sum;
    return 0;
}
```



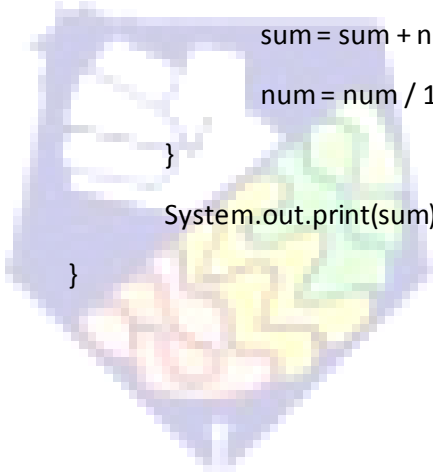
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### Java

```
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;
        while (num != 0)
        {
            sum = sum + num % 10;
            num = num / 10;
        }
        System.out.print(sum);
    }
}
```



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### Python

```
num=int(input("Enter a number:"))  
Sum=0  
while num!=0:  
    Sum=Sum+num%10  
    num=num//10  
print(Sum)
```



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