

Write a C program to find the sum of digits of a number.

```
#include <stdio.h>
void main()
{
    int n, m, sum=0;
    printf("Enter a number:");
    scanf("%d",&n);
    while(n>0)
    {
        m = n%10;
        sum = sum+m;
        n = n/10;
    }
    printf("Sum is = %d",sum);
    return 0;
}
```

Algorithm:

step 1:- start

step 2:- INPUT $n, m, \text{sum}=0$

step 3:- INPUT "Enter a Number:", n

step 4:- while ($n > 0$).

step 5:- $m = n \% 10$

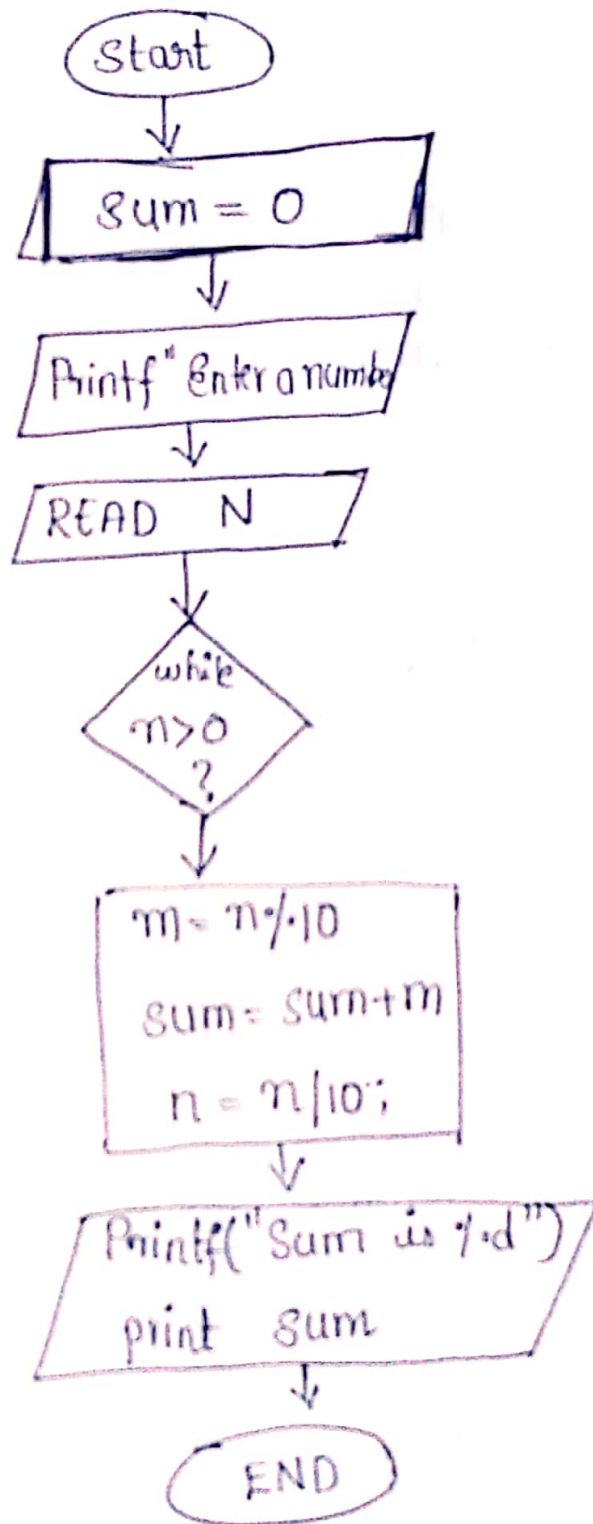
$\text{sum} = \text{sum} + m$

$n = n / 10$.

step 6:- OUTPUT "Sum is %d", sum .
Return 0.

step 7:- Exit.

Flow Chart



Code, Compile & Run

sum of x +

C (Gcc 6.3)

```
1 #include <stdio.h>
2 void main()
3 {
4     int m,n,sum=0;
5     printf("Enter a number:");
6     scanf("%d\n",&n);
7     printf("%d",n);
8     while(n>0)
9     {
10         m=n%10;
11         sum=sum+m;
12         n=n/10;
13     }
14     printf("\nThe Sum of digits is=%d",sum);
15     return(0);
16 }
17
```

6:19

Custom Input

Run

Status Runtime error

Date 2020-05-30 06:06:51

Time 0 sec

Mem 9.424 k

Input

458

Output

Enter a number:458
The Sum of digits is=17

Runtime Error

NZEC