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```
Aim:
```

Write a program to find the sum of individual digits of a given number.

Exp. Name: Write a C program to find the Sum of individual digits of a given

At the time of execution, the program should print the message on the console as:

```
Enter an integer :
```

number

For example, if the user gives the **input** as [1234]:

```
Enter an integer : 1234
```

then the program should print the result as:

```
The sum of digits of the given number 1234 = 10
```

**Note:** Do use the **printf()** function with a **newline** character (\n) at the end.

## **Source Code:**

## LoopExample4.c

```
#include<stdio.h>
int main()
{
    int i,sum=0,rem;
    printf("Enter an integer : ");
    scanf("%d",&i);
    int num=i;
    while(num!=0)
    {
        rem=num%10;
        sum=sum+rem;
        num=num/10;
}
    printf("The sum of digits of the given number %d = %d\n",i,sum);
}
```

## Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter an integer: 345
The sum of digits of the given number 345 = 12
```

```
Test Case - 2
User Output
Enter an integer: 6543
The sum of digits of the given number 6543 = 18
```

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Test Case - 3
User Output
Enter an integer : 96584
The sum of digits of the given number 96584 = 32