Aim:

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

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

```
Enter an integer:
```

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 $(\ \)$ at the end.

Source Code:

LoopExample4.c

```
#include<stdio.h>
void 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 = dn',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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2022-2026-CSE-B

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