Date:2023-01-04

```
Aim:
```

Write a **C** program to calculate the series $(1 + 2 + 3 + 4 + \dots + n)$.

Sample Input and Output:

```
Enter n value : 10
Sum of 10 natural numbers : 55
```

Source Code:

```
series1.c
```

```
#include<stdio.h>
int main()
{
   int n,i=1,sum=0;
   printf("Enter n value : ");
   scanf("%d",&n);
   while(i<=n)
   {
      sum=sum+i;
      i++;
   }
   printf("Sum of %d natural numbers : %d\n",n,sum);
}</pre>
```

Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter n value : 10
Sum of 10 natural numbers : 55
```

```
Test Case - 2
User Output
Enter n value : 14
Sum of 14 natural numbers : 105
```

Test Case - 3	
User Output	
Enter n value : 11	
Sum of 11 natural numbers : 66	

Test Case - 4	
User Output	
Enter n value : 8	

Test Case - 5
User Output
Enter n value : 99
Sum of 99 natural numbers : 4950

Test Case - 6
User Output
Enter n value : 67
Sum of 67 natural numbers : 2278