```
Aim:
```

S.No: 17

```
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>
void 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	

99 Sum of 99 natural numbers : 4950

User Output

Enter n value :

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