Aim:

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

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
Sum of 8 natural numbers : 36

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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