S.No: 18	Exp. Name: ***Write a C program to evaluate 1 + 1 / 2 + 1 / 3 + ... + 1 / n***	Date:2023-01-03

Aim:

Write a **C** program to evaluate `1 + 1 / 2 + 1 / 3 + .... + 1 / n`.

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

```
Enter n value :
```

For example, if the user gives the **input** as:

```
Enter n value : 2
```

then the program should **print** the result as:

```
Result : 1.500000
```

Source Code:

SumOfSeries10.c

```
#include<stdio.h>
void main()
{
   int n,i=1;
   float sum=0;
   printf("Enter n value : ");
   scanf("%d",&n);
   while(i<=n)
   {
      sum=sum+(float)1/i;
      i++;
 }
   printf("Result : %f\n",sum);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter n value : 2
Result : 1.500000

Test Case - 2
User Output
Enter n value : 10
Result : 2.928968

Test Case - 3
User Output

Enter n value : 25
Result : 3.815958

Test Case - 4
User Output
Enter n value : 30
Result : 3.994987

Test Case - 5
User Output
Enter n value : 99
Result : 5.177378

Test Case - 6
User Output
Enter n value : 999
Result : 7.484478

Test Case - 7
User Output
Enter n value : 1
Result : 1.000000

Test Case - 8
User Output
Enter n value : 5
Result : 2.283334