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```
Aim:
```

```
Write a C program to evaluate (1 + 1 / 2 + 1 / 3 + \ldots + 1 / n).
```

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

Exp. Name: Write a C program to evaluate 1 + 1/2 + 1/3 + + 1/n

```
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 :
Result : 1.500000
```

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

```
Test Case - 3
User Output
```

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

Enter n value :

Result : 3.815958

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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	
Jser Output	
Enter n value : 1	
Result : 1.000000	

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