Sasi Institute of Technology and Engineering (Autonomous)

2022-2026-CSE-B

Aim:

```
Write a C program to evaluate \begin{bmatrix} 1 + 1 / 2 + 1 / 3 + \dots + 1 / n \end{bmatrix}.
```

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);
}</pre>
```

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		

	Took Coop A	
	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
Jser Output
nter 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	