

Week 5 : Programming Assignment 4

Write a C program to find sum of following series where the value of N is taken as input

$$1 + 1/2 + 1/3 + 1/4 + 1/5 + \dots 1/N$$

Sample Test Cases

	Input	Output
Test Case 1	100	Sum of the series is: 5.19
Test Case 2	20	Sum of the series is: 3.60
Test Case 3	6	Sum of the series is: 2.45
Test Case 4	50	Sum of the series is: 4.50

```
#include<stdio.h>
int main()
{
    int N;
    float sum = 0.0;
    scanf("%d",&N); /*Read the value of N from test cases provided*/

    int i;
    for(i=1;i<=N;i++)
        sum = sum + ((float)1/(float)i);
    printf("Sum of the series is: %.2f\n",sum);
}
```