

```
#include<stdio.h>
#include<math.h>
main()
{
    int n,i;
    float sum;
    printf("Enter the value of n\n");
    scanf("%d",&n);
    sum=0.0;
    for(i=1;i<=n;i++)
    {
        sum=sum+1./i;
    }
    printf("the required sum is %f \n",sum);
}
//output 1//
Enter the value of n
2
the required sum is 1.500000
//output 2//
Enter the value of n
2021
the required sum is 8.188811
//output 3//
Enter the value of n
10000
the required sum is 9.787613
```