

JAVA ASSIGNMENT  
ON  
PROGRAMS

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Assignment

## QUESTION:

### Problem Statement : Sum of Series Calculator

Question Description: Create a program that calculates the sum of the series  $1 + 1/2 + 1/3 + \dots + 1/n$ . The program should accept an integer 'n' as input.

Boiler Plate Code:

```
public class Main  
{  
    public static void calculateSumOfSeries(int n)  
    {  
        // your code here  
    }  
    public static void main(String[] args) {  
    }  
}
```

Sample Input: 5

Sample Output: 2.2833333333333333

## SOLUTION:

```
package com.training.kodnest;

import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        int n=scan.nextInt();
        calculateSumOfSeries(n);
        scan.close();
    }
    public static void calculateSumOfSeries(int n)

    {
        double sum=0;
        for(int i=1;i<=n;i++)
        {
            sum=sum+1.0/i;
        }
        System.out.println(sum);
    }

}
```

Output:

5

2.283333333333333