

Practical No:11

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Objective: WAP to find the sum of following series: $1 + 1/2 + 1/3 + 1/4 + 1/5 + \dots$

Code :

```
import java.util.*;
class Series{
    public static void main(String[] args){
        int n;
        float i;
        float sum=0.0f;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the number 'n': ");
        n= sc.nextInt();
        for(i=1.0f; i<n; i++){
            sum+=1/i;
            System.out.print(1+ "/" + i+ " + ");
        }
        sum+=1/i;
        System.out.println(1+ "/" + i+ " = "+ sum);
        sc.close();
    }
}
```

Output:

```
PS E:\03 Semester\Java\Assignments\Assignment_04_oct28> cd "e:\03
Semester\Java\Assignments\Assignment_04_oct28\" ; if ($?) { javac Series.java } ;
if ($?) { java Series }
Enter the number 'n': 4
1/1.0 + 1/2.0 + 1/3.0 + 1/4.0 = 2.0833335
```