WAP to calculate the value of a series: $1 + 2^2 + 3^3 \ldots n^n$.

```
#include<stdio.h>
#include<math.h>
void main(){
int n, i, sum = 0;
printf("Enter any integer:");
scanf("%d",&n);
for(i=1;i<=n;i++)
  sum = sum + pow (i,i);
printf("\nSum = %d",sum);
}
```

WAP to calculate the value of a series: ½ + ¾ + ⅝ ... n terms.

```
#include<stdio.h>
void main(){
int n,i,j;
float sum = 0;
printf("Enter any integer:");
scanf("%d",&n);
for(i=1,j=1;i<=n;i++,j=j+2)
  sum = sum + (float)j/(j+1);
printf("\nSum=%f",sum);
}
```

WAP to calculate the value of a series: ½ - ¾ + ⅝ - ⅞ ... n terms.

```
#include<stdio.h>
void main(){
int n,i,j,s=1;
float sum = 0;
printf("Enter any integer:");
scanf("%d",&n);
for(i=1,j=1;i<=n;i++,j=j+2)
{
  sum = sum + s * (float)j/(j+1);
  s=-s;
}
printf("\nSum=%f",sum);
}
```

WAP to calculate the value of a series: 1/1! + 2/2! + 3/3! ... n/n!.

```
#include <stdio.h>
void main(){
float n,sum=0, f=1, i;
printf("Enter the value:");
scanf("%f",&n);
for(i=1;i<=n;i++)
{
  f = f * i;
  sum = sum + (i/f);
}
printf("Sum of the series= %f",sum);
}
```

WAP to calculate value of a series: x - x/2! + x/3! - x/4!...x/n!

```
#include<stdio.h>
void main(){
float n,sum=0, f=1, i, s=1,x;
printf("Enter value of n and x:");
scanf("%f%f", &n,&x);
for(i = 1; i <= n; i++) {
```