

```

    f = f * i;
    sum = sum + s*(x/f);
    s=-s;
}
printf("Sum of the series= %f",sum);
}

```

**WAP to calculate value of a series:  $\sin x = x - x^3/3! + x^5/5! \dots x^n/n!$**

```

#include<stdio.h>
#include<math.h>
void main(){
int i,n,fact=1,sign=-1;
float x,num,sum,term;
printf("Enter the angle in degrees and value of n");
scanf("%f%d",&x,&n);
x=x*3.14/180;
sum=x;
for(i=3;i<=n;i=i+2)
{
    fact=fact*i*(i-1);
    term=pow(x,i)/fact;
    sum=sum+sign*term;
    sign=-sign;
}
printf("Value of series= %f",sum);
}

```