**Write a program to calculate sum of the following series:**

**y=x+x^2+x^3+x^4...x^n**

**where x and n are given by users.**

**#include<stdio.h>**

**#include<conio.h>**

**#include<math.h>**

**int main()**

**{**

**float x,sum=0.0;**

**int n,i;**

**printf("Enter the value of x:\t");**

**scanf("%f",&x);**

**printf("Enter the value of n:\t");**

**scanf("%d",&n);**

**for(i=1;i<=n;i++)**

**{**

**sum=sum + pow(x,i);**

**}**

**printf("\nSum = %f",sum);**

**getch();**

**return 0;**

**}**