Taylor's Series

```
#include<iostream.h>
#include<conio.h>
#include<math.h>
long int factorial(int n);
void main()
int x,i;
float s,r;
 char c;
cout << "You have this series: -1+x/1! + x^2/2! + x^3/3! + x^2/2!
x^4/4!..x^x/x!"<<endl;
cout<<"To which term you want its sum of ? ";</pre>
cin>>x;
 s=0;
for (i=1;i<=x;i++)
     s=s+((float)pow(x,i)/(float)factorial(i));
 cout<<"The sum of "<<x<<" terms is "<<1+s;
getch();
long int factorial(int n)
 if (n \le 1)
return(1);
 else
n=n*factorial(n-1);
return(n);
 }
 /*
Sample I/O:
You have this series: -1+x/1! + x^2/2! + x^3/3! + x^4/4! ... x^x/x!
To which term you want its sum of ? 3
The sum of 3 terms is 13
*/
```