```cpp
#include <iostream>
#include <math.h>

using namespace std;
int factorial (int x)
{
    int fact = 1 ;
    for (int i = 1; i<=x ; i ++ )
        fact*=i ;
        return fact ;
}


int main()
{
    int number ;
 cout <<"Enter x " <<endl ;
 cin >> number ;
 cout << "Factorial of "<<number << " = "<<factorial (number)<<endl;



    return 0;
}
```