```cpp
#include<iostream>
using namespace std;

double power(double,int=2);

int main()
{
        int p;
        double n,r;
        cout << "Enter number : ";
        cin >> n;
        cout << "Enter exponent : ";
        cin >> p;
        r = power(n,p);
        cout << "Result is " << r;
        r = power(n);
        cout << "\nResult without passing exponent is " << r;

        return 0;
}

double power(double a, int b)
{
        double x = 1;
        for(int i = 1; i <= b; i++)
                x = x * a;
        return x;
}
```