```cpp
/**
This is a program to compute sin(x)
*/

#include <iostream>
#include <cmath>

int main() {
        int N;
        double x;

        std::cout << "Enter N" << std::endl;
        std::cin >> N;

        std::cout << "Enter x" << std::endl;
        std::cin >> x;

        while (N < 0) {
                std::cout << "Number of terms in the series"
                        << " should be some positive"
                        << " integer." << std::endl;
                std::cout << "Enter N" << std::endl;
                std::cin >> N;
        }

        double sum = 0;
        int fact = 1;
        int sign = 1;

        for (int i = 1; i < N; i++) {
                sum += sign * std::pow(x, i) / fact;
                fact *= (i + 1) * (i + 2);
                sign *= -1;
        }

        std::cout << sum << std::endl;

        return 0;
}
```