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Assignment No.8

MathLibrary.h

```
#pragma once
#ifdef MATHLIBRARY_EXPORTS
#define MATHLIBRARY_API __declspec(dllexport)
#else
#define MATHLIBRARY_API __declspec(dllimport)
#endif

namespace MathLibrary
{
    // This class is exported from the MathLibrary.dll
    class Functions
    {
    public:
        // Returns a + b
        static MATHLIBRARY_API double Add(double a, double b);
        // Returns a * b
        static MATHLIBRARY_API double Multiply(double a, double b);
        // Returns a + (a * b)
        static MATHLIBRARY_API double AddMultiply(double a, double b);
    };
};
```

MathLibrary.cpp

```
#include "windows.h"
#include "MathLibrary.h"
namespace MathLibrary
{
    double Functions::Add(double a, double b)
    {
        return a + b;
    }
    double Functions::Multiply(double a, double b)
    {
        return a * b;
    }
    double Functions::AddMultiply(double a, double b)
    {
        return a + (a * b);
    }
};
```

MathClient.cpp

```cpp
#include "windows.h"
#include <iostream>
#include "MathLibrary.h"
using namespace std;
int main()
{
    double a = 7.4;
    int b = 99;
    cout << "a + b = " <<
    MathLibrary::Functions::Add(a, b) << endl;
    cout << "a* b = " <<
    MathLibrary::Functions::Multiply(a, b) << endl;
    cout << "a + (a * b) = " <<
    MathLibrary::Functions::AddMultiply(a, b) << endl;
    return 0;
}
```

Output: