

Philip Pesic

Week 2

August 28 2022

Week 2 Prog 3

Problem 3 - Multiply two numbers. Write a program that:

Prompts the user to type in three different double numbers, num1, num2, num3.

Print out the value of $\text{num1} * (\text{num2} + \text{num3})$

* Be sure to comment your code explaining what it does

```
//  
// main.cpp  
// Week 2 Prog 3  
//  
// Created by Pippo Pesic on 8/28/22.  
//  
  
#include <iostream>  
using namespace std; //Automatically incorporates std::  
int main() {  
    double num1; //Declares num1  
    double num2; //Declares num2  
    double num3; //Declares num3  
    double sum; //Declares sum  
    cout << "Enter num1" << endl; //Prompts user for num1  
    cin >> num1; //Stores input as num1  
    cout << "Enter num2" << endl; //Prompts user for num2  
    cin >> num2; //Stores input as num2  
    cout << "Enter num3" << endl; //Prompts user for num3  
    cin >> num3; //Stores input as num3  
    sum = num1 * (num2 + num3); //Calculates sum  
    cout << num1 << " * (" << num2 << " + " << num3 << ") = " << sum << endl; //Outputs sum  
    cout << "Philip Pesic 8/24/22" << endl; //Signature  
    return 0;  
}
```

Philip Pestic

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Week 2 Prog 3

The screenshot shows a C++ IDE with a project named "Week 2 Prog 3". The main file, "main.cpp", contains the following code:

```
1 //  
2 // main.cpp  
3 // Week 2 Prog 3  
4 //  
5 // Created by Pippo Pestic on 8/28/22.  
6 //  
7  
8 #include <iostream>  
9 using namespace std; //Automatically incorporates std::  
10 int main() {  
11     double num1; //Declares num1  
12     double num2; //Declares num2  
13     double num3; //Declares num3  
14     double sum; //Declares sum  
15     cout << "Enter num1" << endl; //Prompts user for num1  
16     cin >> num1; //Stores input as num1  
17     cout << "Enter num2" << endl; //Prompts user for num2  
18     cin >> num2; //Stores input as num2  
19     cout << "Enter num3" << endl; //Prompts user for num3  
20     cin >> num3; //Stores input as num3  
21     sum = num1 * (num2 + num3); //Calculates sum  
22     cout << num1 << " * (" << num2 << " + " << num3 << " ) = " << sum << endl; //Outputs sum  
23     cout << "Philip Pestic 8/24/22" << endl; //Signature  
24     return 0;  
25 }  
26
```

The output window shows the following text:

```
Enter num1  
137645  
Enter num2  
238746  
Enter num3  
1241247  
137645 * (238746 + 1.24125e+06) = 2.03714e+11  
Philip Pestic 8/24/22  
Program ended with exit code: 0
```

I practiced writing basic programs with math functions