



Visual Studio Code interface showing a C++ program in `2.cpp` and its execution output in the terminal.

Code in `2.cpp`:

```
1 // 2: Ram and shiv are working as accountants in bank. They need to know all the arithmetic
2 // operations to verify the accounts. Since they are weak in mathematics, they found
3 // difficultly in doing such arithmetic operations. Help them to check accounts by applying
4 // arithmetic operations including add, subtract, multiply and divide using class template.
5
6 #include <iostream>
7 using namespace std;
8
9 template<class T>
10 class Accountant{
11 public:
12     void add(T a, T b){
13         cout<<"Addition : "<<a+b<<endl;
14     }
15
16     void sub(T a, T b){
17         cout<<"Subtraction : "<<a-b<<endl;
18     }
19
20     void mul(T a, T b){
21         cout<<"Multiplication : "<<a*b<<endl;
22     }
23
24     void divide(T a, T b){
25         cout<<"Division : "<<a/b<<endl;
26     }
27 };
28
29 int main()
30 {
31     int a=10,b=20;
32     Accountant<int> al;
33     al.add(a,b);
34     al.mul(b,a);
35
36     float c=2.2,d=6.6;
37     Accountant<float> fl;
38     fl.sub(c,d);
39     fl.divide(d,c);
40     return 0;
41 }
```

Terminal Output:

```
PS D:\ODDP\ODDP\Week 8> cd "d:\ODDP\ODDP\Week 8\" ; if ($?) { g++ 2.cpp -o 2 } ; if ($?) { .\2 }
Addition :30
Multiplication :200
Subtraction :-4.4
Division :3
PS D:\ODDP\ODDP\Week 8> |
```

Taskbar and System Tray:

- System tray: 29°C Cloudy, 11:20 AM, 11/10/2022.
- Taskbar: Windows Start button, Search, File Explorer, Visual Studio Code, and other background applications.

FileEditSelectionViewGoRunTerminalHelp3.cpp - Week 8 - Visual Studio Code

C++ 1.cpp 1.UC++ 2.cpp UC++ 3.cpp U X

C++ 3.cpp

```
1 // 3. Write a program to define the function template for swapping two items of the various
2 // data types such as integer, float and characters.
3
4 #include <iostream>
5 using namespace std;
6
7 template <class T>
8 void swapp(T a, T b){
9     T c=a;
10    a=b;
11    b=c;
12    cout<<"After SWAPPING the values are : "<<a<<" "<<b<<endl;
13 }
14
15 int main()
16 {
17     int a=10,b=20;
18     swapp(a,b);
19     float c=11.5,d=20.5;
20     swapp(c,d);
21     return 0;
22 }
```

PROBLEMS 5OUTPUTDEBUG CONSOLETERMINALGIT LENSSQL CONSOLEJUPYTER

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C/C+++... ✓

powershell

cppdbg: 1.e...

Code

> cd "d:\OODP\OODP\week 8\" ; if (\$?) { g++ 3.cpp -o 3 } ; if (\$?) { .\3 }

After SWAPPING the values are : 20 10

After SWAPPING the values are : 20.5 11.5

PS D:\OODP\OODP\week 8>

main 1 0 0 4 ConnectLive ShareCloud CodeSelect a Google Cloud projectReconnect to DiscordLn 22, Col 2Spaces: 4UTF-8CRLF++Go Live4 SpellWin32Prettier

29°C Cloudy11:21 AM 11/10/2022





