

File Edit Selection View Go Run Terminal Help C++ Programming

EXPLORER

- C++ PROGRAMMING
  - .vscode
  - Assignment1
    - admin.cpp
    - admin.exe
    - complex.cpp
    - complex.exe
    - date.cpp
    - date.exe
    - distance.cpp
    - distance.exe
    - employee.cpp
    - employee.exe
    - hr.cpp
    - hr.exe
    - product.cpp
    - product.exe
    - salesManager.cpp
    - salesManager.exe
    - student.cpp
    - student.exe
    - time.cpp
    - time.exe
  - Assignment2
    - program1.cpp
    - program1.exe
    - program2.cpp
    - program2.exe
    - program3.cpp
    - program3.exe
  - Operator Overloading
  - OUTLINE
  - TIMELINE

Assignment2 > program1.cpp > main()

```
60 int main(){
61     Calculator c1;
62     int x=20,y=10;
63     float a=10.5,b=4.6;
64     printf("Addition of int int = %d\n",c1.add(x,y));
65     printf("Addition of int int = %f\n",c1.add(a,b));
66     printf("Addition of int int = %f\n",c1.add(x,a));
67     printf("Addition of int int = %f\n",c1.add(a,x));
68
69     //Sub
70     printf("Subtraction of int int = %d\n",c1.sub(x,y));
71     printf("Subtraction of int int = %f\n",c1.sub(a,b));
72     printf("Subtraction of int int = %f\n",c1.sub(x,a));
73     printf("Subtraction of int int = %f\n",c1.sub(a,x));
74
75     //MUL
76     printf("Multiplication of int int = %d\n",c1.mul(x,y));
77     printf("Multiplication of int int = %f\n",c1.mul(a,b));
78     printf("Multiplication of int int = %f\n",c1.mul(x,a));
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Addition of int int = 30  
Addition of int int = 15.100000  
Addition of int int = 30.500000  
Addition of int int = 30.500000  
Subtraction of int int = 10  
Subtraction of int int = 5.900000  
Subtraction of int int = 9.500000  
Subtraction of int int = -9.500000  
Multiplication of int int = 200  
Multiplication of int int = 48.299999  
Multiplication of int int = 219.000000  
Multiplication of int int = 219.000000  
Division of int int = 2  
Division of int int = 2.282609  
Division of int int = 1.904762  
Division of int int = 0.525000

Ln 68, Col 1 Spaces: 4 UTF-8 LF C++ Go Live Spell Win32 Prettier

SA - IND In 2 hours

Search

ENG IN 18:36 13-11-2024

Visual Studio Code interface showing a C++ project named "C++ PROGRAMMING". The Explorer pane on the left lists files under "Assignment1" and "Assignment2". The main editor displays the code for "program2.cpp", which defines a Circle struct, an Area struct with area methods for Triangle, Rectangle, and Circle, and a main function that calculates and prints the areas of these shapes.

```
34 };\n35 struct Circle{\n36     float radius=5;\n37 };\n38 struct Area{\n39     float area(Triangle t){\n40         return 0.5*t.base*t.height;\n41     }\n42     float area(Rectangle r){\n43         return r.length*r.width;\n44     }\n45     float area(Circle c){\n46         return PI*c.radius;\n47     }\n48 };\n49\n50\n51\n52 int main(){\n53     Area a1;\n54     Triangle t;\n55     Rectangle r;\n56     Circle c;\n57     printf("Area of Triangle = %.2f\\n",a1.area(t));\n58     printf("Area of Rectangle = %.2f\\n",a1.area(r));\n59     printf("Area of Circle = %.2f\\n",a1.area(c));\n60     return 0;\n61 }
```

The TERMINAL pane at the bottom shows the command to compile and run the program, and the output of the program:

```
d:\\Programming\\C++Programming\\Assignment2>cd "d:\\Programming\\C++Programming\\Assignment2\\" && g++ program2.cpp -o program2 && "d:\\Programming\\C++Programming\\Assignment2\\program2.exe"\nArea of Triangle = 100.00\nArea of Rectangle = 200.00\nArea of Circle = 15.70
```

The status bar at the bottom indicates the current file is "main.cpp", the encoding is "UTF-8", and the language is "C++". The system tray shows the time as 18:37 on 13-11-2024.

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main\* 0 0 0 0

SA - IND  
In 2 hours

Assignment2 > program3.cpp > Loan > loan(Student)

```
8 struct Loan{
24     float loan(Employee e){
28         else if(e.sal>=1000000 && e.sal<1200000){
30             //
31         else if (e.sal>=600000 && e.sal<1000000){
32             return 500000;
33         }
34         else if (e.sal>=400000 && e.sal<600000){
35             return 400000;
36         }
37         else{
38             return -1;
39         }
40     }
41 };
42 int main(){
43     Loan l;
44     Student s;
45     Employee e;
46     if(l.loan(s)==-1){
47         printf("No loan approved!\n");
48     }
49     else{
50         printf("The loan for Student based on percentage = %.2f\n",l.loan(s));
51     }
52     if(l.loan(e)==-1){
53         printf("No loan approved!\n");
54     }
55 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

d:\Programming\C++Programming\Assignment2>cd "d:\Programming\C++Programming\Assignment2\" && g++ program3.cpp -o program3 && "d:\Programming\C++Programming\Ass  
ignment2\program3  
The Loan for Student based on percentage = 200000.00  
The Loan for Employee based on salary = 700000.00  
d:\Programming\C++Programming\Assignment2>

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ENG IN 18:37 13-11-2024