

FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelp

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Assignment 4,,,,problem 1

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Problem1.cpp\* X

Assignment 4 (Global Scope)

```
1 #include <stdio.h>
2 #include <math.h>
3
4 int main(void) {
5
6     float x;
7
8     printf("Please enter a number: ");
9     scanf_s("%f", &x);
10    puts("");
11    printf("The square root of %.2f is: %27.2f\n",x ,sqrt(x));
12    puts("");
13    printf("The cubed root of %.2f is: %28.2f\n",x, cbrt(x));
14    puts("");
15    printf("The exponential function of e to the %.2f is:%12.2f\n",x, exp(x));
16    puts("");
17    printf("The logarithm of %.2f base e is: %22.2f\n",x, log(x));
18    puts("");
19    printf("The logarithm of %.2f base 10 is: %21.2f\n",x, log10(x));
20    puts("");
21    printf("The absolute value of %.2f is: %24.2f\n",x, fabs(x));
22    puts("");
23    printf("The ceiling number of %.2f is: %24.2f\n",x, ceil(x));
24    puts("");
25    printf("The floor number of %.2f is: %26.2f\n",x, floor(x));
26    puts("");
27    printf("The power of %.2f*%.2f is: %31.2f\n",x,x, pow(x, x));
28    puts("");
29    printf("The remainder of %.2f/%.2f is: %24.2f\n",x,x, fmod(x, x));
30    puts("");
31    printf("The sin of %.2f is: %35.2f\n",x, sin(x));
32    puts("");
33    printf("The cos of %.2f is: %35.2f\n",x, cos(x));
34    puts("");
35    printf("The tan of %.2f is: %35.2f\n",x, tan(x));
36    puts("");
37
38    return 0;
39
40 }
41 //Student name: Khalid Nimri
42 //Student ID: 
```

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'Assignment 4,,,,problem 1' (1 of 1 project)

Assignment 4

References

External Dependencies

Header Files

Resource Files

Source Files

Problem1.cpp

Properties

output from: Debug

Assignment 4.exe (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'.
Assignment 4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
Assignment 4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
thread 0xdc4 has exited with code 0 (0x0).
thread 0x11c0 has exited with code 0 (0x0).
program '[9016] Assignment 4.exe' has exited with code 0 (0x0).

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Problem1.cpp

Assignment 4

Microsoft Visual Studio Debug Console

1Please enter a number: 9

2

3The square root of 9.00 is:3.00

4

5The cubed root of 9.00 is:2.08

6

7The exponential function of e to the 9.00 is:8103.08

8

9The logarithm of 9.00 base e is:2.20

10

11The logarithm of 9.00 base 10 is:0.95

12

13The absolute value of 9.00 is:9.00

14

15The ceiling number of 9.00 is:9.00

16

17The floor number of 9.00 is:9.00

18

19The power of 9.00\*9.00 is:387420489.00

20

21The remainder of 9.00/9.00 is:0.00

22

23The sin of 9.00 is:0.41

24

25The cos of 9.00 is:-0.91

26

27The tan of 9.00 is:-0.45

28

29C:\Users\Klnimri\source\repos\Assignment 4,,,,problem 1\Debug\Assignment 4.exe (process 10672) exited with code 0.

30To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

31Press any key to close this window . . .

32

33

34

35

36

37

38

39

40}

41//Student name: Khalid Nimri

42//Student ID:

output from: Debug

Assignment 4.exe (Win32): Loaded C:\Windows\SysWOW64\kernel.appcore.dll .

Assignment 4.exe (Win32): Loaded C:\Windows\SysWOW64\msvcrt.dll.

Assignment 4.exe (Win32): Loaded C:\Windows\SysWOW64\rpcrt4.dll.

thread 0x1fb8 has exited with code 0 (0x0).

thread 0x1ee4 has exited with code 0 (0x0).

program '[10672] Assignment 4.exe' has exited with code 0 (0x0).

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Solution 'Assignment 4,,,,problem 1' (1 of 1 project)

Assignment 4

References

External Dependencies

Header Files

Resource Files

Source Files

Problem1.cpp

Solution ExplorerGit Changes

Properties

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FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelp

Search (Ctrl+Q)

Assignment 4,,, problem 2

2

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problem2.cpp\*

Assignment 4,,, problem 2

(Global Scope)

```
1  #include <stdio.h>
2
3  float calculateCharges(float hours);
4
5  float charge;
6
7  int main()
8  {
9      int customer;
10     float one;
11     float two;
12     float three = 0;
13     float hours;
14
15     for (customer = 1; customer <= 3; customer++) {
16         printf("Enter customer #%d parking hours: ", customer);
17         scanf_s("%f", &hours);
18
19         if (customer == 1)
20             one = hours;
21         else if (customer == 2)
22             two = hours;
23         else
24             three = hours;
25     }
26     printf("%s%10s%12s", "Car", "Hours", "Cost");
27     printf("\n%d%12.1f%12.1f", 1, one, calculateCharges(one));
28     printf("\n%d%12.1f%12.1f", 2, two, calculateCharges(two));
29     printf("\n%d%12.1f%12.1f", 3, three, calculateCharges(three));
30     printf("\n%s%8.1f%12.1f", "TOTAL", one + two + three, calculateCharges(one) + calculateCharges(two) + calculateCharges(three));
31 }
32
33 float calculateCharges(float hours)
34 {
35     int h = hours;
36     charge = 2.0;
37
38     if (hours > 0) {
39         if (hours <= 3)
40             return charge;
41
42         else if (hours <= 24) {
```

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Solution 'Assignment 4,,, problem 2' (1 of 1 project)

Assignment 4,,, problem 2

References

External Dependencies

Header Files

Resource Files

Source Files

problem2.cpp

Output

Show output from: Debug

Assignment 4,,, problem 2.exe (Win32): Loaded C:\Windows\System32\kernel.appcore.dll .

'Assignment 4,,, problem 2.exe' (Win32): Loaded 'C:\Windows\System32\msvcrt.dll'.

'Assignment 4,,, problem 2.exe' (Win32): Loaded 'C:\Windows\System32\rpcrt4.dll'.

The thread 0x29c4 has exited with code 0 (0x0).

The thread 0x1700 has exited with code 0 (0x0).

The program '[12960] Assignment 4,,, problem 2.exe' has exited with code 0 (0x0).

Error List

Output

Activate Windows

Go to Settings to activate Windows.

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Server ExplorerToolbox

problem2.cpp\* X

Assignment 4,,, problem 2 (Global Scope)

```
28 printf("\n%d%12.1f%12.1f", 2, two, calculateCharges(two));
29 printf("\n%d%12.1f%12.1f", 3, three, calculateCharges(three));
30 printf("\n%s%8.1f%12.1f", "TOTAL", one + two + three, calculateCharges(one) + calculateCharges(two) + calculateCharges(three));
31 }
32
33 float calculateCharges(float hours)
34 {
35     int h = hours;
36     charge = 2.0;
37
38     if (hours > 0) {
39         if (hours <= 3)
40             return charge;
41
42         else if (hours <= 24) {
43             while (h > 3) {
44                 charge += .5;
45                 h--;
46                 if (charge >= 10)
47                     charge = 10;
48             }
49             return charge;
50         }
51     }
52     else
53         printf("\nThe amount of time entered is not supported.");
54 }
55 //student name: Khalid Nimri
56 //Student ID: 
```

Solution Explorer

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Solution 'Assignment 4,,, problem 2' (1 of 1 project)

Assignment 4,,, problem 2

References

External Dependencies

Header Files

Resource Files

Source Files

problem2.cpp

Solution ExplorerGit Changes

Properties

Activate Windows

Go to Settings to activate Windows.

Output

Show output from: Debug

Assignment 4,,, problem 2.exe (Win32): Loaded C:\Windows\SysWOW64\kernel.appcore.dll .
'Assignment 4,,, problem 2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
'Assignment 4,,, problem 2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
The thread 0x29c4 has exited with code 0 (0x0).
The thread 0x1700 has exited with code 0 (0x0).
The program '[12960] Assignment 4,,, problem 2.exe' has exited with code 0 (0x0).

Error ListOutput

Add to Source Control

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FileEditViewGitProjectBuildDebugTestAnalyzeToolsExtensionsWindowHelpSearch (Ctrl+Q)Assignment 4,,, problem 2

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problem2.cpp

Assignment 4,,, problem 2

Microsoft Visual Studio Debug Console

28  
29 Enter customer #1 parking hours: 5  
30 Enter customer #2 parking hours: 2  
31 Enter customer #3 parking hours: 7  
32 Car Hours Cost  
33 1 5.0 3.0  
34 2 2.0 2.0  
35 3 7.0 4.0  
36 TOTAL 14.0 9.0  
37 C:\Users\Klnimri\source\repos\Assignment 4,,, problem 2\Debug\Assignment 4,,, problem 2.exe (process 10284) exited with code 0.  
38 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.  
39 Press any key to close this window . . .  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56

es(three));

Solution Explorer

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Solution 'Assignment 4,,, problem 2' (1 of 1 project)

- Assignment 4,,, problem 2
  - References
  - External Dependencies
  - Header Files
  - Resource Files
  - Source Files
    - problem2.cpp

Solution Explorer

Git Changes

Properties

Output

Show output from: Debug

- Assignment 4,,, problem 2.exe (win32): Loaded C:\Windows\SysWOW64\kernel.appcore.dll .
- 'Assignment 4,,, problem 2.exe' (win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
- 'Assignment 4,,, problem 2.exe' (win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
- The thread 0x2710 has exited with code 0 (0x0).
- The thread 0x23e4 has exited with code 0 (0x0).
- The program '[10284] Assignment 4,,, problem 2.exe' has exited with code 0 (0x0).

Error List

Output

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