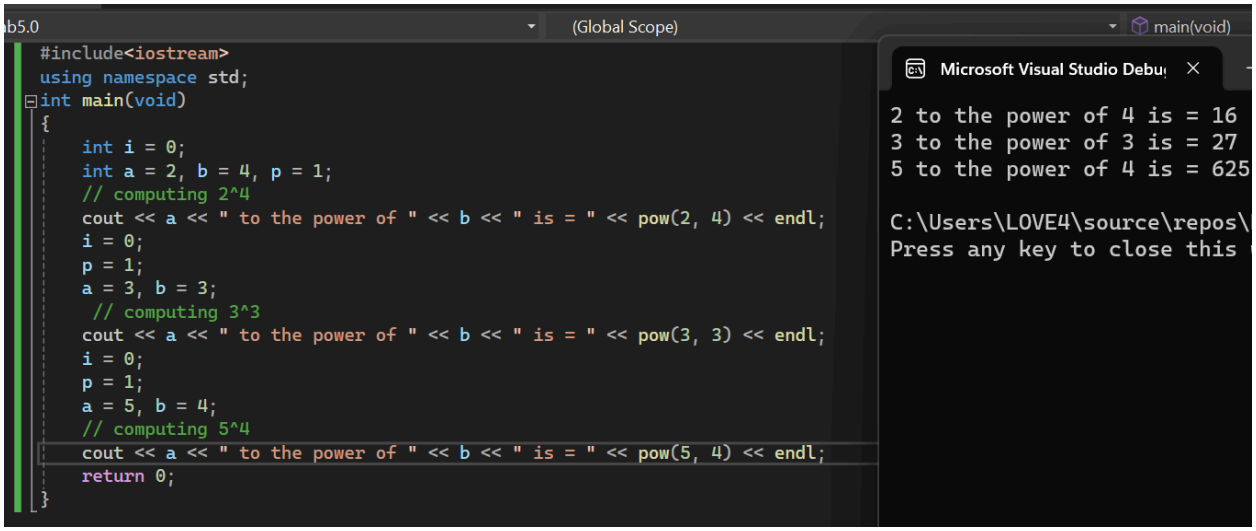
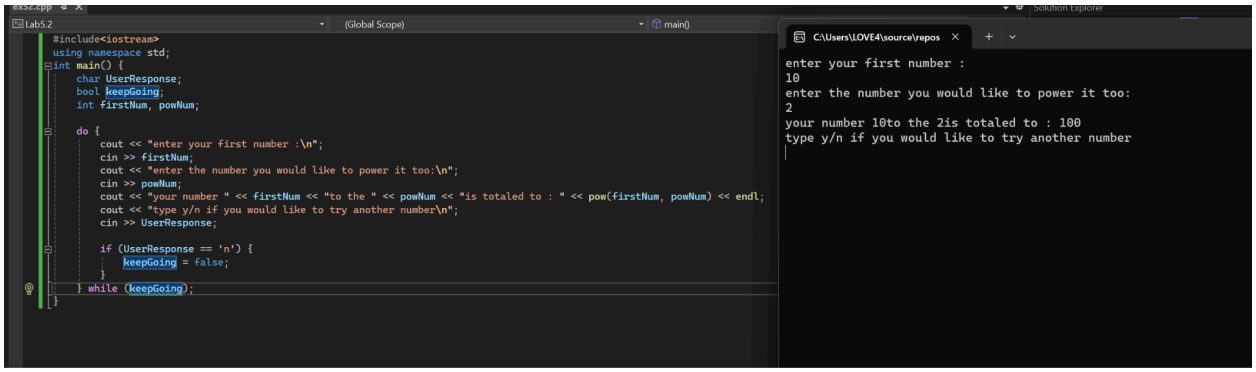
Example 5.1



Could have used the variables but completely forgot about them till after and you could use a while loop to go through all of this

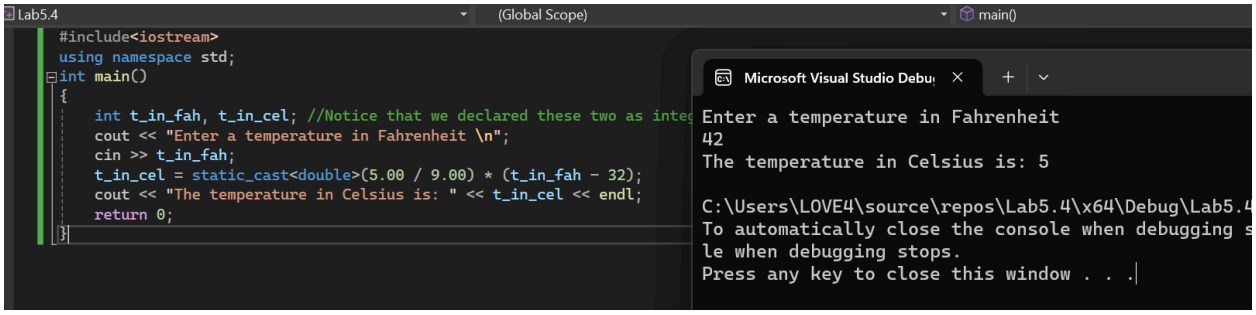
Example 5.2



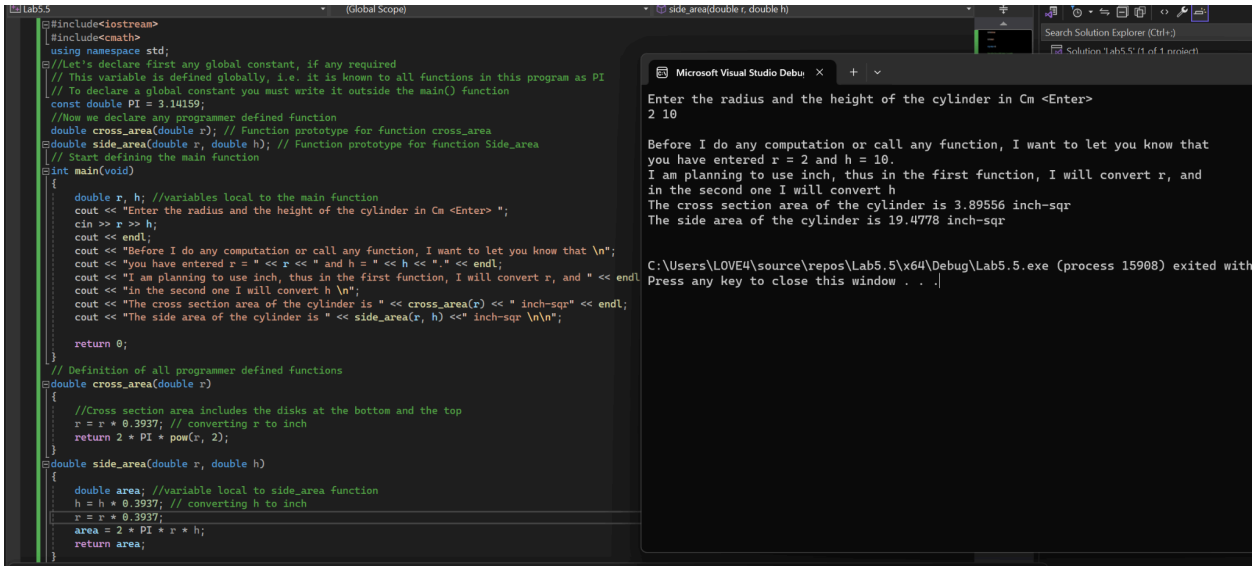
Now we used the for loops

Number	Ceil(ceil)	Floor	Round	
55.9	56	54	56	
25.3	26	24	25	
-13.2	-14	-12	-13	
-31.8	-32	-30	-32	

Example 5.4

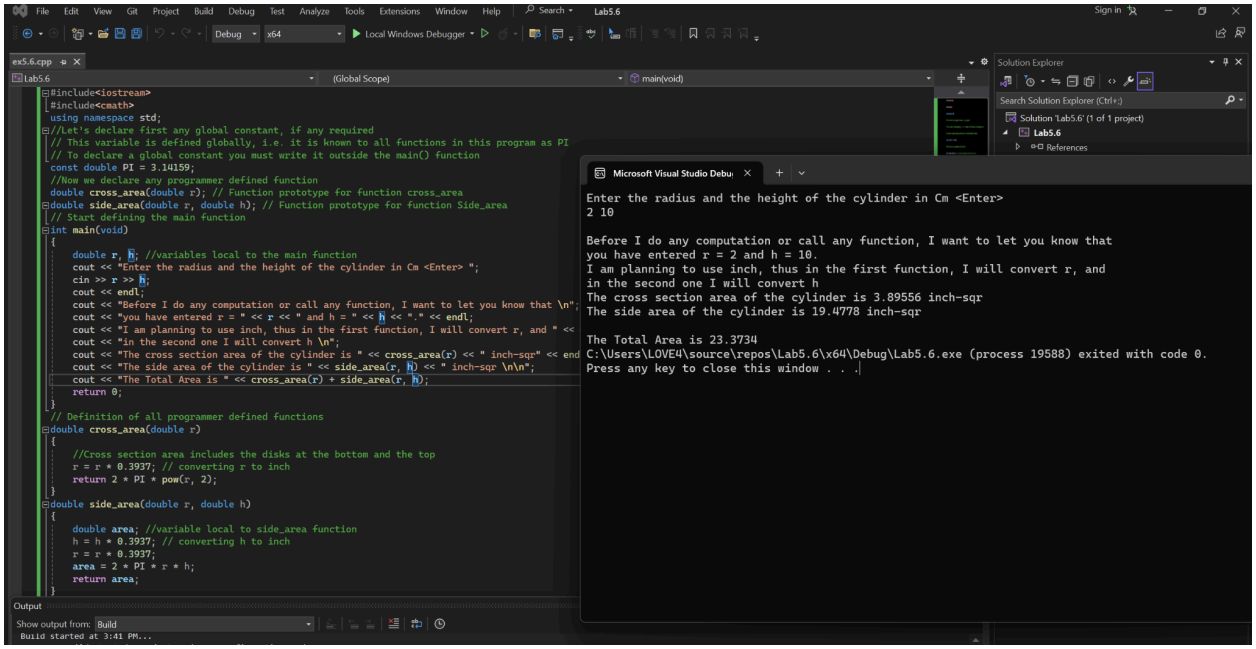


Example 5.5



It wasnt working was because the radius was not being converted

Example 5.6


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Lab5.6
Debug
x64
Local Windows Debugger
ex5.6.cpp
Lab5.6
(Global Scope)
main(void)
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'Lab5.6' (1 of 1 project)
Lab5.6
References
#include<iostream>
#include<cmath>
using namespace std;
//Let's declare first any global constant, if any required
// This variable is defined globally, i.e. it is known to all functions in this program as PI
// To declare a global constant you must write it outside the main() function
const double PI = 3.14159;
//Now we declare any programmer defined function
double cross_area(double r); // Function prototype for function cross_area
double side_area(double r, double h); // Function prototype for function Side_area
// Start defining the main function
int main(void)
{
double r, h; //variables local to the main function
cout << "Enter the radius and the height of the cylinder in Cm <Enter> ";
cin >> r >> h;
cout << endl;
cout << "Before I do any computation or call any function, I want to let you know that \n";
cout << "you have entered r = " << r << " and h = " << h << "." << endl;
cout << "I am planning to use inch, thus in the first function, I will convert r, and " <<
cout << "in the second one I will convert h \n";
cout << "The cross section area of the cylinder is " << cross_area(r) << " inch-sqr" << end
cout << "The side area of the cylinder is " << side_area(r, h) << " inch-sqr \n\n";
cout << "The Total Area is " << cross_area(r) + side_area(r, h);
return 0;
}
// Definition of all programmer defined functions
double cross_area(double r)
{
//Cross section area includes the disks at the bottom and the top
r = r * 0.3937; // converting r to inch
return 2 * PI * pow(r, 2);
}
double side_area(double r, double h)
{
double area; //variable local to side_area function
h = h * 0.3937; // converting h to inch
r = r * 0.3937;
area = 2 * PI * r * h;
return area;
}
Output
Show output from: Build
Build started at 3:41 PM...
Microsoft Visual Studio Debu
Enter the radius and the height of the cylinder in Cm <Enter>
2 10
Before I do any computation or call any function, I want to let you know that
you have entered r = 2 and h = 10.
I am planning to use inch, thus in the first function, I will convert r, and
in the second one I will convert h
The cross section area of the cylinder is 3.89556 inch-sqr
The side area of the cylinder is 19.4778 inch-sqr
The Total Area is 23.3734
C:\Users\LOVE4\source\repos\Lab5.6\x64\Debug\Lab5.6.exe (process 19588) exited with code 0.
Press any key to close this window . . .