

For this lab you will write a program to calculate the volume of a sphere. First, login using your Novell ID and start Visual C++.

1. Open a new C++ source file called sphere.cpp on the H: drive.
2. Start the program with a comment containing your name, the date, the filename and what the program will do.
3. Have the usual #include statements.
4. Declare a float constant for the mathematical value of  $\pi$  and set it to the value 3.14159.
5. Inside main, declare a float variable for the radius of the sphere.
6. Use an assignment statement to set the radius to the value 5.1.
7. Print a title for the output (including your name).
8. Calculate the volume of the sphere using the math formula:  $\text{Volume} = \frac{4}{3} \pi r^3$
9. Print out the result of the calculation, with a string describing the value.

Hand in a printed copy of your program and the output.