

**CPS188 Lab 1 Practice Problems***Problem 1*

Base: Write a program that stores the value of PI in a constant macro, stores the height of a cylinder in a double-precision floating point variable, and gets the radius (which is an integer value) from the user. Calculate the volume of the cylinder (determine what variable type to use) and print out the height, volume, and radius on a single line.

Challenge 1: Read the radius from a text file.

Challenge 2: Write the height, volume, and radius to a text file.