

You may be asked to demonstrate/explain your work to the tutor, if you are absent/unavailable or fail to demonstrate properly, zero marks will be awarded.

Text book: Deitel, H M & Deitel, P J 2013, C: How to program, 7th edn, Pearson Prentice-Hall, Upper Saddle River, New Jersey.

**Marks will be deducted (-0.25) if the submission format is not right**

Submission Format: Copy and paste the question and then write your answer. If it is a programming question copy and paste your code from text editor followed by the screenshots of the output window. Marks will be deducted if this format is not followed. You need to follow the exact sequential number as in the tut sheet. Submit a single file.

### Lab 9

1. Looking into programs you developed in previous weeks (Week 1 to Week 8), which programs should be written in multiple modules? Name three and explain why they need to be rewritten into multiple source files.
2. Try to rewrite your program in Week 4 Question 2 into multiple files, e.g. more than one .c file and .h header.
3. Write a complete program that prompt the user for the radius of a sphere and calculates and prints its volume. Use an inline function sphereVolume that returns the result of the volume.
4. Write a complete C++ program with the two alternate functions specified below. These functions will double the variable count defined in main.
  - a. Function doubleByValue that passes a copy of count by value, double the copy and returns the new value.
  - b. Function doubleByReference that passes count by reference via a reference parameter, double the original value of count through its alias, i.e. the reference parameter.