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.

Week 10

1. Fill in the blanks

    a. _____ enables C++ to have various functions with the same name that operate on different types or numbers of arguments.

    b. The _____ (symbol) enables access to a global variable with the same name as a variable in a particular function.

    c. A _____ enables a single function to be defined to perform the same task on data of many different types.

2. Explain what the purpose of default argument is.

3. Write a program that uses a function template called max to determine the larger of two arguments. Write another function template called min to determine the smaller of two arguments. Test the program using integer, character, and floating-point number arguments.

4. Write two overloaded functions named countNegative. The first function receives one integer array and size of the array as parameters and returns the number of negative numbers in the array. The second function receives floating point array and size of the array as parameters and returns the number of negative numbers in the array. Then write a main function to test these functions. The program should be able to check and report the cases when there are no negative numbers in the array. All printing happens in the main function.