# Northeastern University

ETC2103 – Homework 1

1. Define a class for a type called CounterType. An object of this type is used to count things, so it records a count that is a nonnegative whole number. Include a default constructor that sets the counter to zero and a constructor with one argument that sets the counter to the value specified by its argument. Include member functions to increase the count by 1 and to decrease the count by 1. Be sure that no member function allows the value of the counter to become negative. Also, include a member function that returns the current count value and one that outputs the count to a stream. The member function for doing output will have one formal parameter of type ostream for the output stream that receives the output. Embed your class definition in a test program.
2. Design a class called Date. The class should store a date in three integers: month, day and year. There should be member functions to get, set and print the date in the following forms:

12/25/2012

25 December 2012

The class should also have a member function to accept the Date from the User (i.e., cin) in the form: 12/25/2012 or 12-25-2012.

Test the class in a small application that defines Date object(s) and exercises the interface of the class (the member functions).