

# ECE 175: Computer Programming for Engineering Applications

Spring 2018

## Lab Assignment # 1

Wednesday Jan 24<sup>th</sup> Lab

### Relevant Programming Concepts:

- Data type declaration and initialization
- Input/Output functions
- Control structures – conditional branching

**Problem 1:** Write a C program that reads three integers  $x$ ,  $y$ ,  $z$  from the keyboard and displays the largest integer.

### Sample Output:

Enter three integers: 2 21 5

Max integer = 21

**Test values:** (1, 2, 5) (5, -3, 3) (0, 3, 1) (2, 2, 2)

**Problem 2:** Write a C program that reads the numeric grade of a student and converts it to a letter grade. The grade conversion should be based on the following table:

| Numeric Grade | Letter Grade |
|---------------|--------------|
| [3.5-4.0]     | A            |
| [2.5-3.5)     | B            |
| [1.5-2.5)     | C            |
| [0.5-1.5)     | D            |
| [0.0-0.5)     | F            |

### Sample Output:

Enter your numeric grade: 3.7

Your letter grade is: A

**Test values:** (0.2) (1.5) (2.7), (3.8) (4.0), (4.5) (-2.0)