**Lab-7**

**Out Date:** 11/13/2018 (Tuesday)

**Due Date:** 11/13/2018 (Tuesday) within class

**Problem Statement:** Write **templates** for a function **minimum**(). The minimum function should accept two arguments and return the value of the argument that is the lesser of the two **[30 points]**.

Get the user’s input the string format. Write another function **isInteger**() to detect if the user’s inputs are whole numbers (or integer numbers) or floating point numbers. The function should return true if the numbers are integers otherwise, it should return false. According to the function return convert the inputs into int (via stoi) or float (via stof) and pass them to **minimum()** **[40 points]**.

The program should generate an **exception** when negative values is entered. Allow the user to correct the mistake by letting him/her enter a positive number. [**20 points]**.

**Test-case-1 (for int values)**:

> Enter the first number: -50

> Error: Please enter a positive number for the first number: 50

> Enter the second number: -10

> Error: Please enter a positive number for the second number: -100

> Error: Please enter a positive number for the second number: 10

> The output from the minimum() function: 10

> The output from the maximum() function: 50

**Test-case-2 (for float values)**:

> Enter the first number: -50.50

> Error: Please enter a positive number for the first number: 50.50

> Enter the second number: -10.10

> Error: Please enter a positive number for the second number: -100.10

> Error: Please enter a positive number for the second number: 10.10

> The output from the minimum() function: 10.10

> The output from the maximum() function: 50.50

**Scoring Distribution [100 points]**

* 90 points for implementing the above mentioned requirements.
* 5 points for appropriate comments
* 10 points for programing style

**Blackboard Submission**

1. Submit the necessary files (Lab7.cpp)
2. Zip the files
3. Upload the zip file to Blackboard