**ANKARA UNIVERSITY**

**COM102B-COM120**

**Spring 2020**

**LAB6**

**Date: 03/04/2020**

**Due Date: 08/04/2020 23:59**

You are given 102\_120\_Lab6.cpp. Please **DO NOT** change main function, but will only use it during development of your **Complex** class. You need to provide required functions in same cpp file and will submit the completed file.

To add two complex numbers, we need to add each part separately:

(a+b***i***) + (c+d***i***) = (a+c) + (b+d)***i***

To multiply complex numbers, we need to multiply each part of the first complex number by each part of the second complex number.

(a+b***i***)(c+d***i***) = ac + ad***i*** + bc***i*** + bd***i2*** (***i2***=-1)

|  |  |
| --- | --- |
| **Sample Input:** | **Sample Output:** |
| -2.1 -3.4i  3.5 2.4i | Copy constructor is called.  -2.1-3.4i  3.5+2.4i  -2.1-3.4i  1.4-1i  0.81-16.94i |

**Submission:** Name your source file as <StudentID>.cpp. For example, if your ID is 112603, then you will submit 112603.cpp file.

**Compilation:** (Assuming that your file is named as 112603.cpp)

**>g++ 112603.cpp –o Lab6**

Then, you can run your executable using:

**>./Lab6**