

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)

Department of Computer Science (CS)**Introduction to Programming [LAB Task on Operator Overloading]**

1. For this task you have to use the Box class that was developed in previous classes Overload + operator, to combine two box object and create a new object from it. if you have Box1 and Box2 the new combined box's, length will be equal to sum of the length of Box1 and Box2. width will be equal to sum of the width of Box1 and Box2. height will be equal to sum of the height of Box1 and Box2.

Also, Overload * operator, to combine two box object and create a new object from it. if you have Box1 and Box2 the new combined box's, length will be equal to multiplication of the length of Box1 and Box2. width will be equal to multiplication of the width of Box1 and Box2. height will be equal to multiplication of the height of Box1 and Box2.

2. Create a class to handle Complex Numbers and to make it more useful Overload +, -, * operators to implement the complex numbers addition, subtraction, and multiplication.

The operators +, -, * should work for these combinations,

Complex + Complex

Complex + int

Complex - Complex

Complex - int

Complex * Complex

Complex * int