CSE225L – Data Structures and Algorithms Lab Lab 03 Operator Overloading

<u>Task</u>: Recall the complex number class we discussed in our lectures. Modify the class and overload the –(subtraction), * (multiplication), != (not equal) and the = =(equal) operators for the class given below.

```
complex.h
                                            complex.cpp
#ifndef COMPLEX H INCLUDED
                                            #include "complex.h"
#define COMPLEX_H INCLUDED
                                            #include <iostream>
                                            using namespace std;
class Complex
                                            Complex::Complex()
    public:
                                                Real = 0;
    Complex();
    Complex(double, double);
                                                Imaginary = 0;
    Complex operator+(Complex);
                                            Complex::Complex(double r, double i)
    void Print();
    private:
    double Real, Imaginary;
                                                Real = r;
};
                                                Imaginary = i;
#endif // COMPLEX H INCLUDED
                                            Complex Complex::operator+(Complex a)
                                               Complex t;
                                               t.Real = Real + a.Real;
                                                t.Imaginary = Imaginary + a.Imaginary;
                                                return t;
                                            void Complex::Print()
                                                cout << Real << endl;</pre>
                                                cout << Imaginary << endl;</pre>
```