Object Oriented Programming (C&D) – Spring 2020
Quiz-03

Implement following **ComplexNumber** class:

```cpp
class ComplexNumber
{
private:
    int real;
    int imaginary;
public:
    ComplexNumber();
    ComplexNumber(int , int ) ;
    ComplexNumber(const ComplexNumber
);
    ~ComplexNumber(); //Does Nothing.

    void Input();
    void Output();

    bool IsEqual(ComplexNumber);
    ComplexNumber Conjugate();
    ComplexNumber Mult(ComplexNumber);
    float Magnitude();
};
```

Sample Run:

```
C:\Windows\system32\cmd.exe

Enter c1:
Enter Real:      2
Enter Imanginary:        3


Enter c2:
Enter Real:      4
Enter Imanginary:        5

c1 = 2+3i

c2 = 4+5i

c1 is NOT Equal to c2.

Conjugate of c1:         2-3i

Conjugate of c2:         4-5i

c1 + c2 :        6+8i

c1 - c2 :        -2-2i

c1 x c2 :        Do Yourself

Magnitude of c1 = Display Magnitude of c1 here


Magnitude of c2 = Display Magnitude of c2 here
Press any key to continue . . . _
```

Important:
- Do not change class definition
- Submit only one **RUNNING** file YourRollNumber.cpp that contains class, its implementation and the driver Program. Do not submit .rar or .zip files.