

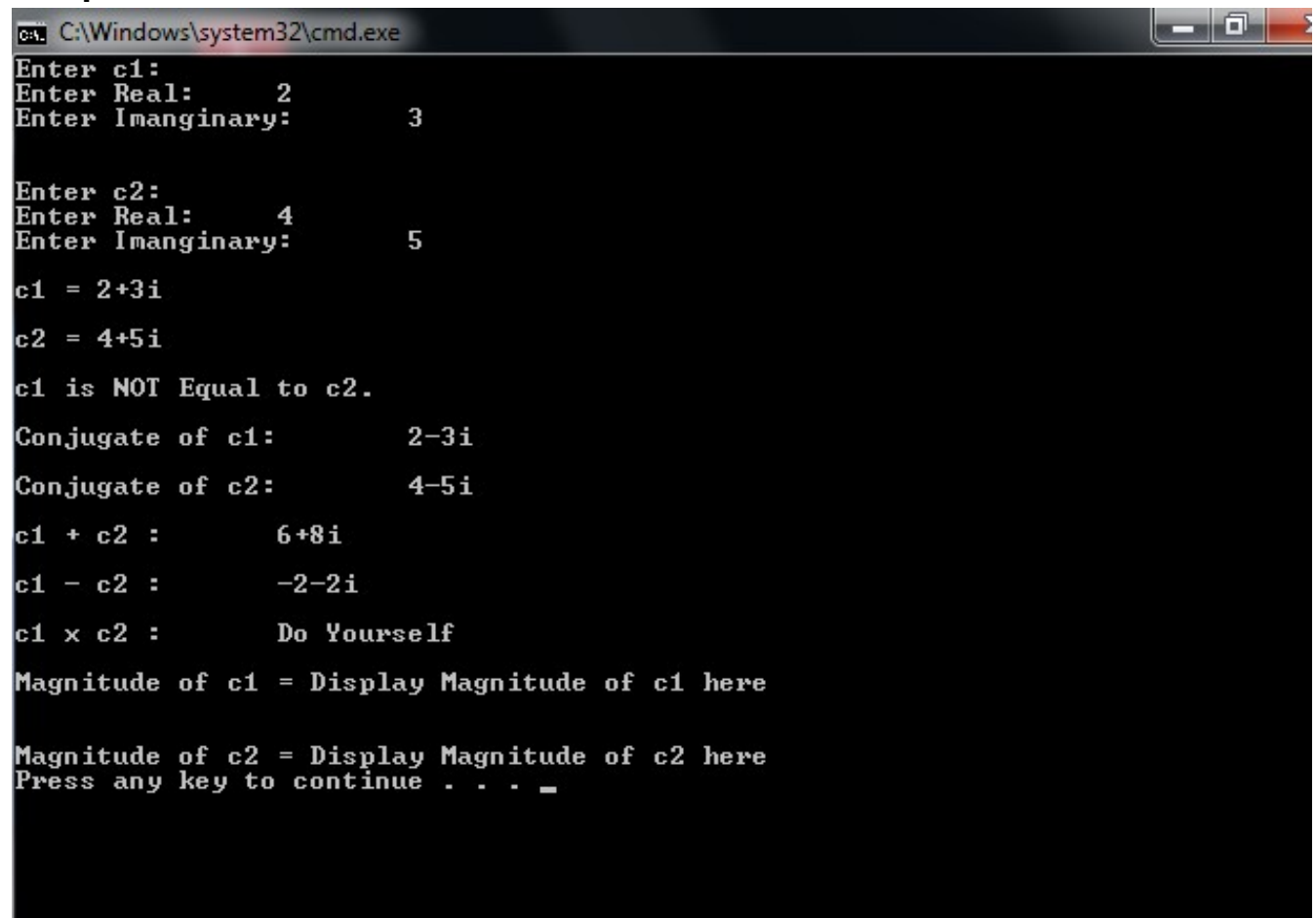
Computer Programming (B&E) - Spring 2018

Assignment 4

Implement following **ComplexNumber** class:

```
class ComplexNumber
{
private:
    int real;
    int imaginary;
public:
    ComplexNumber();
    ComplexNumber(int, int);
    ~ComplexNumber(); //Does Nothing.
    void Input();
    void Output();
    bool IsEqual(ComplexNumber);
    ComplexNumber Conjugate();
    ComplexNumber Add(ComplexNumber);
    ComplexNumber Subtract(ComplexNumber);
    ComplexNumber Multiplication(ComplexNumber);
    float Magnitude();
};
```

Sample Run:



```
C:\Windows\system32\cmd.exe
Enter c1:
Enter Real:      2
Enter Imaginary:      3

Enter c2:
Enter Real:      4
Enter Imaginary:      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 . . . _
```

Help:

https://en.wikipedia.org/wiki/Complex_number

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.