National University of Computer and Emerging Sciences, Lahore Campus

	Course:	Object Oriented Programming	Course Code:	CS217
	Program:	BS(Computer Science)	Semester:	Spring 2021
	Due Date:	8-May-2021	Total Marks:	10
	Section:	2E	Weight (Tentative)	3%
	Evaluation:	Assignment-04	Page(s):	2

Submission Path: Google classroom

Important Instructions:

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

Implement the following **ComplexNumber** class:

```cpp
class ComplexNumber
{
private:
        float real;
        float img;
public:
        ComplexNumber();
        ComplexNumber(float, float );
        ComplexNumber(const ComplexNumber & cn);

        friend istream & operator>>(istream & in, ComplexNumber & cn);
        // cin >> complexNo1 >> complexNo2;

        friend ostream & operator<<(ostream & out, const ComplexNumber & cn);
        //cout << complexNo1 << complexNo2; //3+4i, 5+10i

        ComplexNumber & operator++(int);
        //post increment operator. complexNo++;

        ComplexNumber & operator++();
        //pre increment operator. ++complexNo;


        bool operator!=(const ComplexNumber & cn);
        // cout<< (complexNo1 != complexNo2);

        friend ComplexNumber operator+(const float, ComplexNumber & cn);
        // 2.5+complexNo; will add 2.5 to all members of complexNo.

};
```