National University of Computer and Emerging Sciences, Lahore Campus

Course:	OOP	Course Code:	CS217
Program:	BS(Computer Science)	Semester:	Fall2022
Due Date:	03-04-2022 , 11:00 PM	Total Marks:	20
Date:	31-03-2022	Page(s):	
Section:	2J, 2K & 2L	Roll No.	
Type:	Assignment-2		

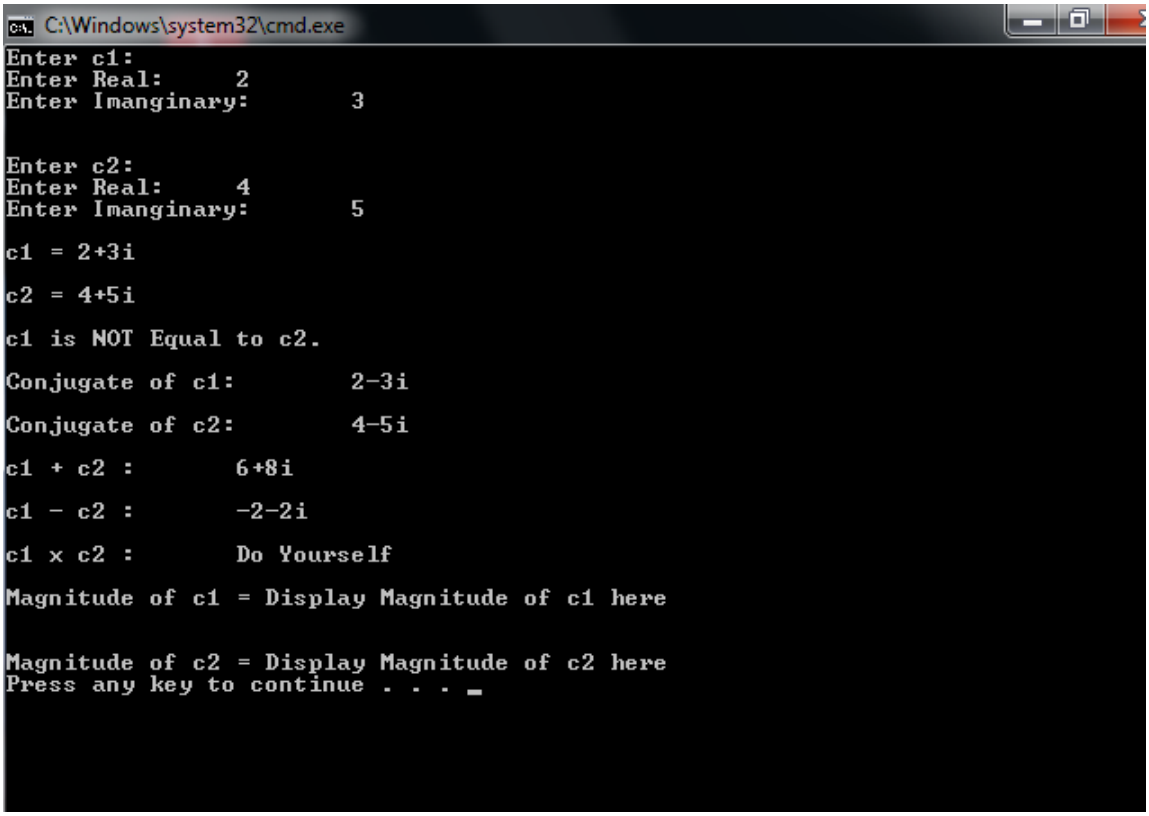
Instruction/Notes:

- **Zero Tolerance for Plagiarism. You will get straight away zero marks in all assignments.**
- **Individual Assignment**
- **Read the deadline carefully. No Extension this time.**
- **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.**

Implement following **ComplexNumber** class and write driver program to produce given sample output:

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

Sample Output:



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