**National University of Computer and Emerging Sciences**



**Lab Manual 07**

**Object Oriented Programming**

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## Objectives

After performing this lab, students shall be able to:

* Understand operator overloading

**TASK :**

**Note: Understanding the question is part of the lab**

Implement a class called **Complex**. The Complex class will have two data members:

* int real; // The real part of complex number
* int imaginary; // Imaginary part of the complex number.

You have to implement default constructor, overloaded constructor, copy constructor, destructor and overload the operators **+, - , << , >>, ==, !=,=**

**Sample Run:**

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| **Driver.cpp** | **Output** |
| int main()  {  Complex C1;  Complex C2(5,6);  Complex C3;  cout<<"Input a complex number"<<endl;  cin>>C3;  cout<<C1<<C2<<C3;  if(C1==C2)  cout<<"C1 == C2"<<endl;  else  cout<<"C1 != C2"<<endl;  if(C1!=C3)  cout<<"C1 != C3"<<endl;  else  cout<<"C1==C3"<<endl;  Complex C4= C2 - C3;  cout<<C4;  system("pause");  return 0;  } |  |