

**Modern Education Society's
Wadia College of Engineering, Pune**

NAME OF STUDENT:	CLASS:
SEMESTER/YEAR:	ROLL NO:
DATE OF PERFORMANCE:	DATE OF SUBMISSION:
EXAMINED BY:	EXPERIMENT NO:

TITLE : **PERFORM ARITHMETIC OPERATIONS ON COMPLEX NUMBERS**

PROBLEM STATEMENT : Implement a class Complex which represents the Complex Number data type. Implement the following operations:

1. Constructor (including a default constructor which creates the complex number $0+0i$).
2. Overloaded operator + to add two complex numbers.
3. Overloaded operator * to multiply two complex numbers.
4. Overloaded << and >> to print and read Complex Numbers.

OBJECTIVES:

1. To understand Polymorphism.
2. To understand Compile time polymorphism.

OUTCOMES:

1. Develop programming application using object oriented programming language C++.
2. Percept the utility and applicability of OOP.

PRE-REQUISITES:

1. Knowledge of class, object .
2. Knowledge of operator overloading, friend function.

APPARATUS:

QUESTIONS:

1. What is Polymorphism?
2. What are the rules for overloading operators?
3. How many arguments are required in the definition of an overloaded unary operator?