**ASSIGNMENT: NUMBER 2**

**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.

**AIM**: To add and multiply two complex numbers using operator overloading.

**DESCRIPTION**: Create a class ‘Complex’ which consists of a constructor and a default constructor which creates the complex number. In this class, overload the respective operators to add, multiply, read and print the complex numbers.

**OOP CONCEPT USED**:

1. **Default constructor**-:A default constructor is a constructor that either has no parameters, or if it has parameters, all the parameters have default values.
2. **Operator overloading**-:Operator overloading is a compile-time polymorphism in which the operator is overloaded to provide the special meaning to the user-defined data type. Operator overloading is used to overload or redefines most of the operators available in C++. It is used to perform the operation on the user-defined data type.

**3. CONCLUSION**: In this assignment, we learned and implemented the concept of operator overloading to add and multiply two complex numbers.