Title :-

Design a class 'Complex' with data members of real and imaginary part. Provide default and parameterized constructors. Write a g program to perform arithmetic operations of two complex numbers.

Theory :-

JAVA CONSTRUCTOR

A constructor in java is a special method that is used to initialize objects. The constructor is called when an object of a class is created. It can be used to set initial values for object attributes.

Types of Java Constructor

1] Default Constructor
2] Parameterized Constructor.

1] Default Constructor.

A constructor is called "Default Constructor" when it doesn't have any parameter.

Syntax For Default Constructor

<class_name> () { }

2) Parameterized constructor

A constructor which has a specific number of parameters is called a parameterized constructor.

The parameterized constructor is used to provide different values to distinct objects. However, you can provide the same values also.

Rules of creating Java constructor :

1. Constructor name must be the same as its class name.

2. A constructor must have no explicit return type.

3. A java constructor cannot be abstract, static, final and synchronized.

Conclusion :

Hence we have successfully implement the program of arithmetic operation of two complex number.