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OOCCJ Lab Assignment 3A

Problem statement:
Define a class complex consisting following:
Data members:
a) real
b) Imaginary part
Member Functions
a) One default constructor
b) function setcomplex() to set the value of real and Imaginary part.
c) function printcomplex() to display and
Four overloaded operator member functions:
1) operator + to add two complex numbers
2) operator * to multiply two complex numbers
3) operator - to subtract two complex numbers using friend function.
4) Operator / to divide two complex numbers using friend function.

Objectives:
1. To learn to create a class and operator overloading in C++.
2. To learn constructor function and operator overloading in C++.
3. To learn friend function in C++.

FAQ's

1) What is Inline function?
→ An inline function is a function that is expan~~ in-line at the point of its call rather than be~ like a regular function. i.e when complier enc~ an inline function calls, it replaces the func~ with the entire body of the function.

2) Which operator links class to a member?
→ The scope resolution operator (::) links clas~ member function in C++. It is used to def~ member function outside the class definition to access static members, namespace me~ etc. It can also be used to access overload~ operators that have been defined as mem~ functions.

Ex] void myclass :: myfunction () {
    }

In the example "::" links 'myclass' to 'myf~

3) What is default access specifier in C++?
→ In C++, the default access specifier for a 'private'. This means all data members a~ data functions of the class are priva~ access within the class only.

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OOCCJ Lab Assignmen~

Problem statement: Wr~
Interfaces Motorbike ~
consists of the attr~
-ance (). Cycle inter~
These interfaces are ~
Calculate total ~

Objective:
1) To study abstract ~
2. To study interfaces

Theory:
1. Java Abstraction:
- A process of hiding ~
only functionality ~
shows only essentia~
internal details.
Ex: sending sms ~
the message. You ~
the message de~
It focuses on wh~
does it.

There are 2 w~
1) Abstract class (