Practical List: 03	Enrollment No.:		Name:
Sr. No.		**Practical Problems**	
1.	Write a C++ program to concatenate two string objects using operator overloading.		
2.	Write a C++ program to overload the binary operators +, -, * and /.		
3.	Using operator overloading, write a C++ program to find area of two circles, which have different radius. Also find which area of circle is greater. [To overload use > operator]		
4.	Write a program to create a TIMES class that stores the hours, minutes and seconds. Overload the + operator, so that the user can add two times.		
5.	Write a C++ program by creating a class called COUNTER which can increment and decrement counter variable ++ and - - operator, by returning the objects.		
6.	Write a C++ program to find SUM = 1+2+3+……+100 using operator.		
7.	Write a C++ perform to create a class WH that stores the weight and height. Overload the + operator using friend function and add the two values.		
8.	Write a C++ program by creating a class called MARKS which has three subjects' marks. Overload the subscript operator [] to display the marks of particular subject.		
9.	Write a C++ program by creating a class named STUDENT which has data members as enro and name. Create appropriate method using << and >> operator function to get and display the details of three students.		

10.	Design classes such that they support the following statements:
	    Rupee r1, r2;
	    Dollar d1, d2;
	    d1 = r1; // converts rupee (Indian currency) to dollar (US currency)
	    r2 = d2; // converts dollar (US currency) to rupee (Indian currency)		

11.	Create an application by creating a class for inventory of products stock which maintains item code, price and quantity. Use two classes and convert data of one class to another class using casting operator.		

Objective(s)	To vibrant the concept of class and object, friend function, constructor, operator overloading and type conversion.
Pre-requisites	Usage of class, object, member and non-member function, friend function and constructors.
Duration for Completion	8 Hours
PEO(s) to be achieved	To provide quality practical skill of tools and technologies to solve industry problems.
PO(s) to be achieved	Ability to use the techniques, skills and modern tools as necessary for software development.
CO(s) to be achieved	Recognize the concept of polymorphism and implement static (compile time) polymorphism in programs by overloading methods and operators.
Solution must contain	Program and output

Nature of submission	Handwritten
References for solving the problem	--
Post Laboratory questions	1. What is operator overloading? 2. Why it is required to overload operators? 3. What is the difference if friend function is used in the place of member functions for overloading binary operator? 4. How to convert basic data type to class type? Give example. 5. Which are the operators that can be overloaded? 6. Which are the operators that cannot be overloaded? 7. Which are the operators that cannot be overloaded using friend function?
	Assessment
Faculty Signature	
Date	