

BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU Integrated M.Sc.(IT)

Semester-II

060010210 | CC5 Object Oriented Programming

Practica	l List: 03	Enrollm	ent 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				
	different radius. Also find which area of circle is greater.			[To overload use > operator]	
4.	Overload the + operator, so that the user can add two times.				
5.	Write a C++ program by creating a class called COUNTER which can i				
_			ariable ++ and operator, by returni		
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. Ov				
0	operator using friend function and add the two values.			0 1:11 1 1:42	
8.	Write a C++ program by creating a class called MARKS which has three subjects Overload the subscript operator [] to display the marks of particular subject.				
9.					
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.	Write a menu driven program that can perform the following functions on strings. (
10.	overloaded operators where possible). (Do not use predefined string class)				
	1. Compare two strings for equality (== operator)				
	2. Check whether first string is smaller than the second (<= operator)				
		ne string to		1	
	4. Extract	a characte	r from the string (Overload [])		
	5. Reverse the string				
	6. Concatenate two strings (+ operator)				
11.	1. Design classes such that they support t		that they support the following staten	nents:	
	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)				
12.				_	
	item code, price and quantity. Use two classes and convert data of one class to another class				
using casting operat				abiant friend franction and are	
Objectiv	e(s)		To vibrant the concept of class and		
Due veguigites			operator overloading and type conve		
Pre-requisites			Usage of class, object, member a function and constructors.	and non-member function, iriend	
Duration for Completion			8 Hours		
Durano	n tot Colli]	picuon	o mours		



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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					