

## LAB 5

### OPERATOR OVERLOADING

In this lab, students shall write and run different programs related to *operator overloading* in C++ programming language. Following programs with different task number shall be covered in this lab:

#### **Task #1:**

Write a program in CPP to overload unary ++ for postfix and prefix increment operation on time object with data members- hour, minutes and second, using member function ( implementation as ++c1 and c2=c1++). [For time t(1, 59, 59), then, resultant of t++ will be t(2,00,00)]

#### **Task #2:**

Write a program in CPP to overload unary -- for postfix and prefix decrement operations for **Task#1** using non-member/friend function ( implementation as c1-- and c2= --c1).

#### **Task #3:**

Write a program in CPP to find the sum of two objects of class “measurement” with data members - feet and inch, using the concept of the overloading binary + operator using member function.

#### **Task #4:**

Write a program in CPP for **Task#3** using the concept of the overloading binary + operator using non-member/friend function.

#### **Task #5:**

Write a program in CPP to find the product of two 3 by 3 matrices entered by the user by overloading binary \* operator.

#### **Task #6:**

Write a program in CPP to compare two time objects by overloading binary > and != operator. (Assume as 14:35:00 > 10:45:00)