

## LAB 2

### BASIC C++ FEATURES (CONTD.)

#### & INTRODUCTION OF CLASS AND OBJECT

In this lab, students shall write and run different programs related to *pass by reference and return by reference, namespaces and concept on classes and objects* in C++ programming language. Following programs with different task number shall be covered in this lab:

**Task #1:**

WAP with function that takes two arguments as reference and swap their values.

**Task #2:**

WAP with function that takes two arguments as reference - n1 and n2 and return 'sum' as a reference . Use 'const' argument wherever necessary.

**Task #3:**

WAP with function that takes two arguments as reference. The function returns reference argument which is of greater value so that it can be assigned specific value (say 500) when function is being invoked.

**Task #4:**

WAP to illustrate how to declare, define and realize a namespace mechanism. Define two namespaces "doctors" and "engineers" with members - salary and function to increase their salary by 10% and 15% respectively. Use different techniques to access the members. Also illustrate how do you access the members of one namespace through another namespace.

**Task #5:**

Create a class vehicle with 3 data members as model number, model name and cost. Create 2 different objects of above class and display their model number, model name and cost.

**Task #6:**

Create a class distance with 2 data items as feet and inches. Create 2 objects of above class and display the data in meters after conversion. (one object takes user input and another should pass the value to get data.)