**Generics**

**Workshop 10**

**In this workshop, you’ll learn:**

* Generics
* Algorithms

1. Create a class Car with data: Name, Price, Production and properly methods.

2. Create another class named GenericCar with a parameter of the T type. This class manages a collection of object T (may be LinkedList) named a. Implementing some methods for GenericCar:

* Add: add new item of T to a
* Display: display all items of a
* getSize: return the number item of a
* checkEmpty: check and return whether a is empty or not
* delete(int pos): remove the item at the position pos of a.

Write a program to use GenericCar as above menu.

Make your own main program to test all above methods.

**Additional proposed exercises:**

3. Create a class Flower with data: Name, Price, Color and properly methods.

4. Create another class named ListFlower. This class manages a collection of Flower (may be LinkedList) named a. Implementing some methods for ListFlower:

* Add: add new item of Flower to a
* Display: display all items of a
* sort(): sort as descending by Price and display all items of a
* search(Flower f): check and return whether f is exists in a or not.
* delete(int pos): remove the item at the position pos of a.

Write a program to use ListFlower as above menu.

Make your own main program to test all above methods.