## Zarka Private University Faculty of Science - Department of Computer Science Second Semester 2003-2004 VB.NET 0306215

## **Home Work Sheet #1**

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Suppose you have a class called *Vehicle* contains the properties: ArrivalTime, DepartureTime, Date, DriverName, Vnumber and Vcount, where Vcount must be common among all objects created from this class. And contains a method to print the content of the object in tabular form.

Suppose you have another class called *Garage*. This class is used to declare an array of objects (from Vehicle class), and has three methods:

- 1. **addVehicle**(ArrivalTime, DepartureTime, Date, DriverName, Vnumber) this method is to look for a free space in the array and create an object and fill it with the required information. This method must return an integer value to indicate that the operation is successful or not (0 failed and 1 success).
- 2. **removeVehicle** (VechileNumber) this method is to look for an object with *VechileNumber* number and remove it (assign null to the object variable. This method must return an integer value to indicate that the object was found and has been removed or not found. (1 found and removed and 0 not found).
- 3. **findVehicle** (VechileNumber) to search about a vehicle object
- 4. **NoOfVehicles()** to return the number of vehicles in the garage.

Write the above classes in a windows library project and then build it as a DLL file. Finally, design a VB.NET windows application that uses the above classes from the DLL file. The program must enable the user to add and remove vehicles to/from the garage and to display the properties of any vehicle in the garage.