

Collections Assignments

SI	Assmt ID DotNet\Obj12	Assignment
1	A	Implement a waiting list of patient's names in a hospital. The person sending in the patients to the doctors room should be able to find the next person to go in.
2	B	Implement the phone index using SortedList. Find the difference between SortedList and HashTable.
3	C	Create VechileRegistration, Vehicle class. Create a collection inside VechileRegistration to hold the license number as key, add Vehicle as value. Create a main method to retrieve the Vehicle object by giving the license number.
4	D	A company is planning to create a system for managing a store for auto parts. A single part can be used for different car models and it has following characteristics: code, name, category (e.g. suspension, tires and wheels, engine, accessories and etc.), purchase price, sale price, list of car models, with which it is compatible (each car is described with brand, model and year of manufacture, e. g. Mercedes C320, 2008) and manufacturing company. Manufacturing companies are described with name, country, address, phone and fax. Design a set of classes with relationships between them, which model the data for the store. Write a demonstration program, which demonstrates the classes and their all functionality work correctly with some sample data.
5	E	A company plans on creating of a system for managing a company for real estates. The company has name, owner, tax ID, employees and has a list of estates for sale. Employees are described with name, work position and experience. The company sells several types of estates: apartments, houses, undeveloped areas and shops. All of them are characterized with area, price of square meters and location. For some of them there is additional information. For the apartments there is data about the number of the floor, whether there is an elevator in the block, and if it is furnished. For the houses the data is – square meters for the undeveloped area and for the developed (yard), how many floors it has and whether it is furnished. Design a set of classes with relationships between them, which model the data for the company. Implement a object oriented class model, which demonstrates the work of the of the classes.

