

Implement the class Car:

- a) Write the all arg-constructor. If the price (respectively qty) is negative set it to 0.
- b) Write the getter/setter methods.
- c) removeQty: subtract the number of cars from quantity when selling cars.
- d) toString: It displays the car's attributes.

Implement another class **carDealer** using the above UML:

- a) Write the constructor that takes as parameters, address and capacity which represents the size of the array cars.
- b) Write the method buyCars reads the information of car objects from the user, creates the objects, and fill them into the array cars.
- c) Write the method sellCars:
 - a. It takes as parameters the brand name and number of cars to sell.
 - b. Search for the quantity if available. If the car is found, and the quantity is available then the total price is returned (price*quantity)
 - c. The quantity available should be updated by decreasing the quantity available.
 - d. If the car is not found, then a "Not found" message should be displayed and the value -1 is returned. If the quantity is not enough, "Not enough quantity" is displayed and and the value -2 is returned.

Write an **application** in which you create a carDealer object of capacity 5. Call the method buyCars. Allow the user to buy a car of his/her choice.