

APCS – Mr. Ascione

Joe's Used Cars



Joe is interested in maintaining the following information for each of the cars in his fleet:

Make, model, mileage, year, cylinders, price and manual/automatic.

In order to build the application we will build a Car class, a CarLot class that implements an ArrayList of cars and a client / runner.

Recall how we declared an ArrayList of Strings:
`ArrayList<String> ray = new ArrayList<String>();`

Cars are objects just like Strings, so declare your ArrayList the same way:
`ArrayList<Car> ray = new ArrayList<Car>();`

The client should have the following functionality:

- | | |
|--------------------------|------------------------------------|
| 1) Add a Car | // adds a car to end of list |
| 2) Insert | // adds a car at a given position |
| 3) Remove | // remove a car from the lot |
| 4) Number of Cars on Lot | // size |
| 5) Value of Cars on Lot | // calculate total on the lot |
| 6) View a Car | // use get method for ArrayList |
| 7) Sort by Price | // Car class implements Comparable |
| 8) View the Lot | // iterate thru the ArrayList |

Enhancements:

- Add the ability to read and write to a file
- Make a GUI client