

## Used Car Dealership Inventory

Your task is to create a simple text-based "Console Application" in java to maintain a catalog of used cars. The catalog keeps track of each car's make, model, year, and sale price.

The program begins with an empty catalog. The user is prompted to enter one of three possible commands:

- `add` - add a car to the catalog
- `list` - list all cars in the catalog
- `quit` - quit the application

If an unknown command is entered, the user should be informed and asked to enter another command. If the `add` or `list` commands are entered, the operation for that command is carried out, then the user is prompted for another command. The application continues until the `quit` command is entered.

### The `add` command

If the `add` command is entered, the user will then be prompted to enter the car's make, model, year, and sales price, one-by-one. The make (e.g. Isuzu) and model (e.g. Trooper) can be arbitrary strings, while the year (e.g. 1990) should be an integer and the sales price (e.g. 2599.99) should be a floating point value. After the data is entered, the record should be stored in memory to be recalled later by the `list` command. You may assume that the catalog will never hold more than 20 cars.

You are *not* required to do any error checking on the data that is entered. For the purpose of keeping the assignment simple, the program may behave arbitrarily badly if the user enters improperly formatted input.

### The `list` command

If the user enters the `list` command, the contents of the catalog should be displayed to the screen, nicely formatted. The format of the output should resemble the example trace below. Regardless of the precision of the stored sales price, the value should be formatted in dollars and cents. If no items exist in the catalog, the command should output a message stating so. Otherwise, after printing out the details of each car, the number of cars and total price of all cars should be printed.

### Example program trace

Welcome to Mullet Joe's Gently Used Autos!

Enter command: show

Sorry, but "show" is not a valid command. Please try again.

Enter command: list

There are currently no cars in the catalog.

Enter command: add

Make: Volkswagen

Model: Jetta

Year: 1999

Sales Price (\$): 9450

Enter command: add

Make: Toyota

Model: Prius

Year: 2006

Sales Price (\$): 27999.90

Enter command: list

1999 Volkswagen Jetta	\$9,450.00
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2006 Toyota Prius	\$27,999.90
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Number of cars: 2

Total inventory:	\$37,449.90
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Enter command: quit

Good bye!

### Extending the assignment

For extra practice, feel free to extend this assignment in any way that you choose. Some example extensions include adding a "delete" command or the ability to sort the cars in the catalog by year or price.