Design a**Car model class**under **package :package4** with the following attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| licenceNumber | String |
| Model | String |
| currentMileage | Double |
| engineSize | Integer |

Mark all the attributes as private & create appropriate Getters & Setters

Design another **class as Main**under **package :package4**, where you need to implement logic as follows:

* Declare an array as Car with size 10.
* Take 10 Car’s information from user and store them in specified array.
* Call **findCarList** method from Main class to get all cars information related to a given model name and display then within this method.
* Model name should be taken from Main class and pass to **findCarList** method as argument as well as Car array (with size 10).

Design **findCarList** method in **Car class**as follows:

* it will take a model(car model) as parameter and array of cars (with size 10)
* displays List of cars for the given model from the list .
* If there are no cars, then **shows “No cars found”.**

output:

Enter licence number : a

Enter model : a

Enter Current Mileage : 1

Enter Engine Size : 1

Enter licence number : b

Enter model : b

Enter Current Mileage : 2

Enter Engine Size : 2

Enter licence number : c

Enter model : c

Enter Current Mileage : 3

Enter Engine Size : 3

Enter licence number : d

Enter model : d

Enter Current Mileage : 4

Enter Engine Size : 4

Enter licence number : e

Enter model : d

Enter Current Mileage : 5

Enter Engine Size : 5

Enter licence number : f

Enter model : d

Enter Current Mileage : 6

Enter Engine Size : 6

Enter licence number : g

Enter model : b

Enter Current Mileage : 7

Enter Engine Size : 7

Enter licence number : h

Enter model : a

Enter Current Mileage : 8

Enter Engine Size : 8

Enter licence number : i

Enter model : d

Enter Current Mileage : 9

Enter Engine Size : 9

Enter licence number : j

Enter model : a

Enter Current Mileage : 10

Enter Engine Size : 10

Enter the model name to find: d

Licence number : d

Model : d

Current Mileage : 4.0

Engine Size : 4

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Licence number : e

Model : d

Current Mileage : 5.0

Engine Size : 5

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Licence number : f

Model : d

Current Mileage : 6.0

Engine Size : 6

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Licence number : i

Model : d

Current Mileage : 9.0

Engine Size : 9

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