

## Question - 1

### FA2-Java-Cars

**Note: ANY MEANS OF INTENDED PLAGIARISM WHILE ATTEMPTING THIS QUESTION IS LIABLE TO HIGHEST POSSIBLE STRICT HR ACTIONS AS IT IS VIOLATION IF INTEGRITY. HENCE, REFRAIN FROM ANY SUCH MEANS AND ATTEMPT THIS QUESTION AS PER YOUR EXPERTISE ONLY.**

Create a class Car with below attributes:

id - int  
manufacturer -String  
model - String  
mileage - double (in Km's)

Write getters, setters and parameterized constructor in the above-mentioned attribute sequence as required.

Create class Solution with main method

Implement a static method - searchCarById in a Solution class.

searchCarById:

Create a static method searchCarById in the Solution class. This method will take an array of Car objects and Id as input and returns the Car object having the mentioned Id if found else return null if not found.

These methods should be called from the main method.

Write code to perform the following tasks:

Take the necessary input variable and call searchCarById. For this method - The main method should print the Car object details as it is, if the returned value is not null, or it should print "No Car found with mentioned attribute".

The above mentioned static method should be called from the main method. Also write the code for accepting the inputs and printing the outputs. Don't use any static test or formatting for printing the result. Just invoke the method and print the result

Note :  
All String comparison needs to be case in-sensitive  
You can use/refer to the below given sample input and output to verify your solution.

Sample Input (below) description:

The 1st input taken in the main section is the number of Car objects to be added to the list of Car.  
The next set of inputs are id,manufacturer,model,mileage for each Car object taken one after another and is repeated for the number of Car objects given in the first line of input.  
The last line of inputs will be the arguments which need to be passed as parameters to the methods.

Consider below sample input and output to test your code:

Sample Input 1 -

4  
1001

Tata  
Nexon  
24.08  
1002  
Maruti  
Wagnor  
33.7  
1003  
Mahindra  
XUV-300  
20.3  
1004  
Honda  
Amaze  
25.7  
1004

Sample Output 1

id-1004  
manufacturer-Honda  
model-Amaze  
mileage-25.7

Sample Input 2 -

3  
1111  
Hyundai  
i20  
23.17  
1112  
Tata  
Punch  
24.8  
1113  
Maruti  
Brezza  
16.4  
1117

Sample Output 2 :

No Car found with mentioned attribute

**Question - 2**  
**Xperience\_Unix\_SBQ**

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In a file, details of students are stored as below:

Sno;Sname;Maths;Physics;Chemistry

The field separator is ";" .

Write the Unix command to print the records of only the students who have secured more than or equal to 55 in each of the three subjects i.e. Maths,Physics and Chemistry along with their total marks. Display name, maths, physics, chemistry, and total with a comma as a separator as shown in the sample output.

If no such records are found or if the file is empty, then the output should be "No Student Found" (Without quotes)

The file name will be provided as a command-line argument when the script containing your command runs. You do not need to worry about how the input data will be stored in the input file. You just need to assume that you will get an input file with the data, through the command line while running the shell script/ command you have written. Just need to try to access the file, supplied as a command-line argument in your script and start processing toward the given requirement.

You can use shell variables (e.g. \$0,\$1,\$2) whichever is applicable for your requirement to provide the command line argument.

For more clarity, please refer to the sample input and output below.

**Sample Input 1:**

```
1;Ram;78;67;43
2;Sam;66;87;34
3;Varni;88;99;99
4;Hima;99;90;89
5;Deepu;99;98;98
6;Rajesh;50;60;70
7;Vishnu;70;80;90
8;Vinay;40;50;55
9;Anand;55;65;76
10;Chandra;30;40;50
```

**Output :**

```
Varni,88,99,99,286
Hima,99,90,89,278
Deepu,99,98,98,295
Vishnu,70,80,90,240
Anand,55,65,76,196
```

**Sample Input 2:**

```
1;Ram;78;67;43
2;Sam;66;87;34
3;Minni;66;35;89
4;Rizvi;78;35;45
5;Naveen;66;55;43
```

**Output:**

```
No Student Found
```