

OOP LAB #03

LAB TASK

Note:

1. All data members should be **"PRIVATE"**.
 - a. i.e. Not any data member should be accessible in the your main function as well as anywhere else out of the class
 2. All data members' can be accessed via setter and getter functions.
 3. Everything should be implemented via functions of classes.
 4. First analyze the situation to decide the function members should be public either private.
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1. A car salesperson needs to keep track of all cars on a used car lot. The information she needs includes the **type, seating capacity, price, miles per gallon**, and **color** of each **car**.
 - a) Define a **class** named Car that will contain all of these **data members**.
 - b) Create two objects of this **class** type.
 - c) Input and output the contents of these **objects**.
 - d) Declare and define the function as you explained above to access and change the values of data members.
 2. You have to create another class "AutoPart" which may have info like partNumber, idNumber, and price.
 - a. Nest this **class** of "AutoPart" within the **class** "Car" by creating an **array of size 3**.
 - b. Also you have to create an array of size five(5) of car **class** to maintain the cars' info.
 - c. Write the functions which can input the data from user for these objects of car.
 - d. Output data via functions within the **class**
 - e. Display the data in proper output form.
 - f. Functions to be performed for above description:
 - i. Find the total price of all parts.
 - ii. Find the average price of each car's parts.
 - iii. Find the total price of each car.
 - iv. Then at the end, find the average of all cars...