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**CSCI 207**

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**OCT 21 CLASSES AND OBJECTS ASSIGNMENT**

**Create your own class (No codio, write it out)**

* **Your own class can be anything you want**
* **Must have 3 instance variables**
* **1 constructor variable → set the instance variables**
* **1 method that does something useful in relation to the class**
* **Create a driver class that creates an object ( the object is referred to the method above)**
* **Call the method that I created using the object**

**Definition for Guidance: (from w3)**

**Constructor variable -** A constructor in Java is a **special method** that is used to initialize objects. The constructor is called when an object of a class is created. It can be used to set initial values for object attributes:

**Instance variable** - declared in a class, but outside a method, constructor or any block.

Driver class – class that contains the main method.

Method - A method is a block of code which only runs when it is called.

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My class will be about asking an owner of 2 cars about the details of his cars and my program will output his responses in a simple and more organized way. The details of the car I will be asking about are the brand, model, and the manufactured year of his cars.

//make a driver class

Public class ListofCars

Public static void main (String[] args){

//then, I will make like a list of the cars, since it is more than one, so I will use an array

// then, I will create a scanner to take the input from the user and ask the user to enter details of his cars.

// then, I will create a for loop, so the question would loop until it would reach 2. That will be done by for(int i=0;i<2;i++) {

//I will ask the user each by each and would register his answer to a variable. The model and brand of his car would be registered in a string and the year of his car would be in an int

//Once I have the info, I will create an instance of the ListofCars class and pass argument in constructor

//Then. Add the instance of student class in list for future.

//Once that is done, I will print the details of the students and store instance of student class and call the function for printing the details.

// the call function would be by getting the average of the years manufactured of the vehicles.

//for the call function to work, I would have to create another method, that will store the sum of all the years manufactured, and divide it by getting the average and return it.  
//Then, create a 3 argument constructor using the brand, model, and the year of the vehicle and initialize it by using the this. Java keyword.

//Lastly, create another method by printing the details of the cars which will be using the print function.