Programming

New Austrian Coding School

week 6 - reflection

You are allowed to use internet resources but you're not allowed to see other participants' code.
The evaluation has a duration of 1 hour and it is ungraded.

Exercise

Hansel is considering buying a car. He decides to go to a car shop and try some of them until he finds the one he likes the most.
Consider the text below:

- There are two kinds of car: manual and automatic.
- A car has a brand.
- A car can drive. When it does, it returns a message saying "<car kind> <brand>".

Follow the instructions below:

- The *Car* class must be abstract. It has a *brand* that is given with the constructor. It has the *drive* method.
- The *AutomaticCar and ManualCar* classes extend from *Car* and add the necessary code.
- The *Cars* class has the *getNextCar* method that receives a *brand* and creates a random automatic or manual car to return it as a *Car*.
- The *Hansel* class has the *haveATry* method that receives a *Car* and drives it to display the following message "I love this <car kind> <brand>".
- The *CarTest* class makes sure the *drive* method of both cars returns the correct text.
- The *CarApplication* creates one *Hansel* and using the *Cars* class tries 10 cars.

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I love this Manual Audi
I love this Automatic Mercedes
I love this Manual Seat
I love this Automatic Skoda
I love this Automatic Tesla
I love this Automatic Bmw
I love this Automatic Peugeot
I love this Manual Citroen
I love this Manual Jeep
I love this Automatic Ferrari
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