Python Homework OOP

WEEK 3

Data Science Academy

You are asked to write a Python program according to the following questions :

1. Create a Vehicle class with **maxspeed** and **color** instance attributes.

2. Create new method which prints **maxspeed** and the color for the given vehicle.

3. Create child class **Car** that will inherit all of the variables and methods of the Vehicle class.

4. Define property that should have the same value for every class instance.
   Example : Every Vehicle should be white.

5. Create a **Train** child class that inherits from the Vehicle class. The default fare of any vehicle is seating capacity * 35. If Vehicle is Train instance, we need to add an extra 10% on full fare as a maintenance charge.

6. Determine which class a given car and train object belongs to.

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