

The exercise consists of to complete the next program in MATLAB or Python.

Program

There are 3 types of vehicles: car, truck, and motorcycle.

- All vehicles have these properties: type (car, truck, or motorcycle), brand (BMW, Ford, Honda, ...), power (in kW), and weight (in kg).
- The car has the property number of doors.
- The truck has the property class (light, medium, or heavy).
- The motorcycle has the property cubic capacity (in cc).

The program should consist of 2 different parts:

1. Define the corresponding classes for these vehicles.
2. Define a main function with the following parts:
 - Create different objects: 4 cars, 2 trucks, and 3 motorcycles.
 - Set any value for all properties.
 - Store all these objects.
 - Calculate the average weight of these vehicles.
 - For each object, display a message (a string with the type, brand, and power) if the weight is higher than the calculated average.