**Advanced Programming Workshop #1**

This program create various types of vehicles and add them to a list. It have classes for Engine, Vehicle ,Car, Truck, Yacht, and Motorcycle. The program have a Main Controller class and a View class.

**Author:**

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**Model:**

It have all the base classes

**Engine:**

The engine of a vehicle with attributes ( type, potency, and weight).

**Vehicle:**

A vehicle with attributes like (engine, chassis, model, year, and gas consunption).

**Car:**

A vehicle with a transmission type.

**Truck:**

A vehicle with a attribute of capacity.

**Yacht:**  
 A vehicle with an attributeof people capacity.

**Motorcycle:**

A vehicle with an attribute for wheels diameter.

**Main Controller:**

It creates vehicles and calculates gas consunption, also initializate the menu

**View:**

It give menus for creating vehicles and the list of vehicles.

**Launcher:**

-Launches the program creating instance of the Controller

My Desicions:  
  
I have top ut the method calculate gas consuption in the Controller, because the model haven’t logic.

I créated a Menu for Engine, because it repeat a lot of times.

I think in create the Vehicle Class as a Abstract class because it can’t be instanced. But it doesn’t have any abstract method.

I used exceptions.