**תרגיל מס' 3 – מערכת לניהול מוסך:**

**מגישים:** טל מזרחי-201050721 וגל זקן- 305665846.

**List of our our enums and classes:**

* **Public class Garage:** This is the operation manager of our system.
* **Public class program:** This class holds the main. It has only the function to start the game.
* **Public class Car:** This class manage and operate the car, it’s inherit from the Vehicle.

It have some Enums:

* eColor: Holds the colors of the car;
* eDoorNum: holds the number of doors that car have

- **Public class Checker:** This class holds the function and method to check user’s input.

* **Public class Clients:** This class manage the clients.

It have some Enums:

* + VehicleStatus: Holds the status of each vehicle (payed/fixed/inProgress).
* **Public class Electric Engine:** This class manage the electric engine methods(inherit from the Engine class).
* **Public class Engine:** This is the father class of the two engines. It holds only few functions that helps identify between electric engine and gasoline engine.
* **Public class GarageLogic:** This class holds the functions who responsible confirming user’s input is valid (Logic and syntax formats).
* **Public class GasolineEngine:** This class manage the gasoline engine methods(inherit from the Engine class).

It have one Enum:

* eGasType: Holds the different gas type(Diesel, Octan etc..).

**- Public Class Motorcycle:** This class manage and operate the mororcycle.

* **Public class Motorcycle:** This class manage and operate the motorcycle functions, it inherit from the Vehicle class.
* **Public class Truck:** This class manage and operate the truck functions, it inherit from the vehicle class.
* **Public class ValueOutOfRange:** This class is “Execption” class that manage the exceptions that are out of range.
* **Public class Vehicle:** This class is the “Father” of car, truck and motorcycle. It holds all the functions and member that related to all vehicles.
* **Public class Wheel:** This class holds and manage all the functions and methods that related to the wheels.

Our Graph:

