Remote Control Car – with Enumeration and Static Classes

RcCar – Class: Class responsible for building an instance of an RcCar object

Member Fields

-make: string – value to hold the name of the car’s make  
-batteryLife: int – value to hold the amount of battery life (max 100)  
-speed: Speed – enumeration to determine the car’s speed.  
-int: battConsumption – value to determine the amount of battery life being consumed.

Properties

+ChangeSpeed: int – read/write property to report and modifiy the vehicle’s speed, use the static class to adjust speeds according to battery consumption. If the batteryLife reaches zero, use the TogglePower() to shut the car off. Each time a speed is changed the batterLife MUST be adjusted.  
+Color: string – read/write property used to change the color of the vehicle.

Methods

+rcCar(make: string, batteryLife: int, speed: Speed, battConsumption: int): RcCar – Used to construct an instance of an RcCar object.

+rcCar():RcCar – used to create a Default instance of an RcCar object.  
+TogglePower():void – used to turn the vehicle on and off.  
+ToString(): string – returns a string representation of an RcCar object as follows:

Make: “SeanCago”  
Battery Life: “60”  
Power: “On” for on, “Off” for off  
Color: “Blue Steel”

Enumeration  
Speed Class  
Different speeds include: None, Slow, Medium, Fast and HyperDrive.

Static Class  
SpeedConsumption  
Create constant integer variables as follows:

NONE = 0, SLOW = -5, MEDIUM = -10, FAST = -15, HYPER\_DRIVE = -30.

Create Each class with the information provided. Be sure to write a test program to make sure everything is running according. Remember to code the batterLife consumption within the RcCar class and NOT in your test program. And most of all… HAVE FUN!