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from enum import Enum

class FuelType(Enum):
    Gasoline = 1
    Diesel = 2
    Hybrid = 3

class Transmission(Enum):
    Manual = 1
    Automatic = 2
    CVT = 3

class Make(Enum):
    Nissan = 1
    Ford = 2
    HYUNDAI = 3
    HONDA = 4
    BMW = 5

class Vehicle:
    def __init__(self, vehicleType, color, vehicleID, fuelType, wheelCount):
        self.vehicleType = vehicleType
        self.color = color
        self.vehicleID = vehicleID
        self.fuelType = fuelType
        self.wheelCount = wheelCount

    def setVehicleType(self, vehicleType):
        self.vehicleType = vehicleType

    def getVehicleType(self):
        return self.vehicleType

    def setColor(self, color):
        self.color = color

    def getColor(self):
        return self.color

    def setVehicleID(self, vehicleID):
        self.vehicleID = vehicleID

    def getVehicleID(self):
        return self.vehicleID

    def setFuelType(self, fuelType):
        self.fuelType = fuelType

    def getFuelType(self):
        return self.fuelType

    def setWheelCount(self, wheelCount):
        self.wheelCount = wheelCount
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    def getWheelCount(self):
        return self.wheelCount

class Car(Vehicle):
    def __init__(self, vehicleType, color, vehicleID, fuelType, wheelCount,
numOfDoors, transmission, modelYear, make,
        speed):
        super().__init__(vehicleType, color, vehicleID, fuelType, wheelCount)
        self.numOfDoors = numOfDoors
        self.transmission = transmission
        self.modelYear = modelYear
        self.make = make
        self.speed = speed

    def setNumOfDoors(self, numOfDoors):
        self.numOfDoors = numOfDoors

    def getNumOfDoors(self):
        return self.numOfDoors

    def setTransmission(self, transmission):
        self.transmission = transmission

    def getTransmission(self):
        return self.transmission

    def setModelYear(self, modelYear):
        self.modelYear = modelYear

    def getModelYear(self):
        return self.modelYear

    def setMake(self, make):
        self.make = make

    def getMake(self):
        return self.make

    def setSpeed(self, speed):
        self.speed = speed

    def getSpeed(self):
        return self.speed

    def printInfo(self):
        print("Vehicle Type:", self.vehicleType)
        print("Color:", self.color)
        print("VehicleID:", self.vehicleID)
        print("Fuel Type:", self.fuelType.name)
        print("Wheel Count:", self.wheelCount)
        print("Number Of Doors:", self.numOfDoors)
        print("Transmission type:", self.transmission.name)
        print("Model Year:", self.modelYear)
        print("Make:", self.make.name)
        print("Speed:", self.speed)

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# creating an object
nissan = Car("Nissan Altima(2014)", "Silver", "AD - 89034",
FuelType.Gasoline, 4, 4, Transmission.Automatic, 2014,
            Make.Nissan, 122.1)
nissan.printInfo()
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