Python classes

First class (Customer) code:

#importing enum  
from enum import Enum  
class Gender(Enum):  
 Male = 1  
 Female = 2  
  
#defining a class name customer  
class Customer:  
  
 #constructor to initalize the attributes  
 def \_\_init\_\_(self, firstName, lastName, phoneNumber, gender, age):  
 self.firstName = firstName  
 self.lastName = lastName  
 self.phoneNumber = phoneNumber  
 self.gender = gender  
 self.age = age  
  
 #defining setter and getter functions  
 def setFirstName(self, firstName):  
 self.firstName = firstName  
  
 def getFirstName(self):  
 return self.firstName  
  
 def setLastName(self, lastName):  
 self.lastName = lastName  
  
 def getLastName(self):  
 return self.lastName  
  
 def setPhoneNumber(self, phoneNumber):  
 self.phoneNumber = phoneNumber  
  
 def getPhoneNumber(self):  
 return self.phoneNumber  
  
 def setGender(self, gender):  
 self.gender = gender  
  
 def getGender(self):  
 return self.gender  
  
 def setAge(self, age):  
 self.age = age  
  
 def getAge(self):  
 return self.age  
  
 #define a function to print the info  
 def printInfo(self):  
 print("First name:", self.firstName)  
 print("Last name:", self.lastName)  
 print("Phone number:", self.phoneNumber)  
 print("Gender:", self.gender.name)  
 print("Age:", self.age)  
  
#creating an object  
customer1 = Customer("James", "W. Jones", "816-897-9862", Gender.Male, 22)  
customer1.printInfo()

Second class (Car class that inherits from the Vehicle class) code:

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

Third class (Mechanic) code:

class Mechanic:  
 def \_\_init\_\_(self,firstName,lastName,phoneNumber,email,yearsOfExperience ):  
 self.firstName=firstName  
 self.lastName=lastName  
 self.phoneNumber=phoneNumber  
 self.email = email  
 self.yearsOfExperience = yearsOfExperience  
 def setFirstName(self,firstName):  
 self.firstName=firstName  
 def getFirstName(self):  
 return self.firstName  
  
 def setLastName(self,lastName):  
 self.lastName=lastName  
 def getLastName(self):  
 return self.lastName  
  
 def setPhoneNumber(self,phoneNumber):  
 self.phoneNumber=phoneNumber  
 def getPhoneNumber(self):  
 return self.phoneNumber  
  
 def setEmail(self,email):  
 self.email=email  
 def getEmail(self):  
 return self.email  
  
 def setYearsOfExperience(self,yearsOfExperience):  
 self.yearsOfExperience=yearsOfExperience  
 def getYearsOfExperience(self):  
 return self.yearsOfExperience  
  
 def printInfo(self):  
 print("First name:", self.firstName)  
 print("Last name:", self.lastName)  
 print("Phone number:", self.phoneNumber)  
 print("Email:", self.email)  
 print("Years Of Experience:", self.yearsOfExperience)  
  
  
# create a Mechanic object  
mechanic1 = Mechanic("Hans", "K", "050-4567892", "Hans797@gmail.com", "3 years")  
  
# print the mechanic's information  
mechanic1.printInfo()