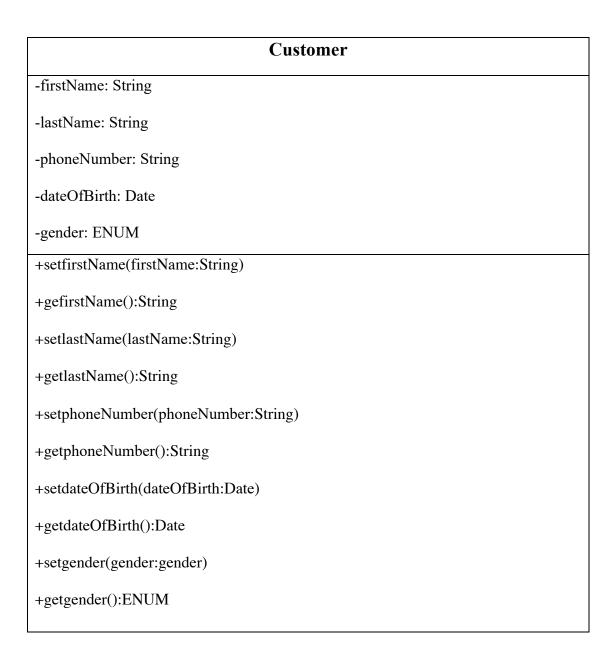| Mechanic |
| --- |
| -mechanicID: String |
| -firstName: String |
| -lastName: String |
| -gender: ENUM |
| -dateOfBirth: Date |
| -mechanicSpecialization: String |
| +setmechanicID(mechanicID:String) |
| +getmechanicID():String |
| +setFirstName(firstName:String) |
| +getFirstName():String |
| +setLastName(lastName:String) |
| +getLastName():String |
| +setGender(gender:Gender) |
| +getGender():ENUM |
| +setdateOfBirth(dateOfBirth:Date) |
| +getdateOfBirth():Date |
| +setmechanicSpecialization(mechanicSpecialization:String) |
| +getmechanicSpecialization():String |

Customer
-firstName: String
-lastName: String
-phoneNumber: String
-dateOfBirth: Date
-gender: ENUM
+setfirstName(firstName:String)
+gefirstName():String
+setlastName(lastName:String)
+getlastName():String
+setphoneNumber(phoneNumber:String)
+getphoneNumber():String
+setdateOfBirth(dateOfBirth:Date)
+getdateOfBirth():Date
+setgender(gender:gender)
+getgender():ENUM

Vehicle

-vehicleID: String
-color: String
-make: String
-model: String
-engineType: ENUM

+setvehicleID(vehicleID:String)

+getvehicleID():String

+setcolor(color:String)

+getcolor():String

+setmake(make:String)

+getmake():String

+setmodel(model:String)

+getmodel():String

+setengineType(engineType: ENUM)

+getengineType():ENUM

Car

-numberOfDoors: ENUM

+setnumberOfDoors(numberOfDoors:ENUM)

+getnumberOfDoors():ENUM

Service
-name: String
-description: String
-price: Float
-approximateDuration: String
-numberOfMechanics: ENUM
+setname(name:String) +getname():String +setdescription(description:String) +getdescription():String +setprice(price: Float) +getprice():Float +setapproximateDuration(approximateDuration: String) +getapproximateDuration():String +setnumberOfMechanics(numberOfMechanics:ENUM) +getnumberOfMechanics():ENUM

I believe that these are 5 classes that will be necessary to print the data or information on the bill. In terms of class relationships. I have included 1 is a relationship which denotes inheritance. Car is a vehicle. This relationship occurs between the vehicle class and car class where the vehicle is the parent class and car is the child class. Car inherits all the attributes from vehicle and has its own attributes too

Objects:

Customer:

James
Jones
816-897-9862
16/04/1992
Male

Mechanic:

00012891456
Hans
K
Male
21/03/1989
Mechanic specializations

Car:

AD-89034
Nissan
Altima 2014
Silver
Gasoline Engine

Service:

Oil replacement
This is the process of removing old dirty oil from the vehicle and replacing it with clean oil
120
45 minutes
1