## Exercise 2

1. Define the required classes, methods and properties based on CarSalesDataforReports Excel file.

```
class Clients:
  #Attributes
  clientID=0
  clientName=""
  address1=""
  address2=""
  town=""
  country=""
  postCode=""
  region=""
 outerPostode=""
  countryID=0
 clientType=""
  clientSize=""
 clientSince=""
 isCreditWorthy = False
 isDealer = False
  #Methods
  def __init__(self,clientID, clientName, address1, address2, town, country, postCode,
             region, outerPostode, countryID, clientType, clientSize, clientSince,
             isCreditWorthy, isDealer):
    self.clientID = clientID
    self.clientName = clientName
    self.address1 = address1
    self.address2 = address2
    self.town = town
    self.country = country
    self.postCode = postCode
    self.region = region
    self.outerPostode = outerPostode
    self.countryID = countryID
    self.clientType = clientType
    self.clientSize = clientSize
    self.clientSince = clientSince
    self.isCreditWorthy = isCreditWorthy
    self.isDealer = isDealer
  #Gets
  def getClientID(self):
    return self.clientID
  def getClientName(self):
    return self.clientName
  def getAddress1(self):
    return self.address1
  def getAddress2(self):
    return self.address2
```

```
def getTown(self):
  return self.town
def getCountry(self):
  return self.country
def getPostCode(self):
 return self.postCode
def getRegion(self):
 return self.region
def getOuterPostode(self):
 return self.outerPostode
def getCountryID(self):
  return self.countryID
def getClientType(self):
 return self.clientType
def getClientSize(self):
  return self.clientSize
def getClientSince(self):
 return self.clientSince
def getIsCreditWorthy(self):
  return self.isCreditWorthy
def getIsDealer(self):
  return self.isDealer
#Sets
def setClientID(self, newClientID):
 self.clientID = newClientID
def setClientName(self, newClientName):
 self.clientName = newClientName
def setAddress1(self, newAddress1):
 self.address1 = newAddress1
def setAddress2(self, newAddress2):
 self.address2 = newAddress2
def setTown(self, newTown):
 self.town = newTown
def setCountry(self, newCountry):
 self.country = newCountry
def setPostCode(self, newPostCode):
  self.postCode = newPostCode
def setRegion(self, newRegion):
 self.region = newRegion
def setOuterPostode(self, newOuterPostode):
```

```
self.outerPostode = newOuterPostode
  def setCountryID(self, newCountryID):
    self.countryID = newCountryID
  def setClientType(self, newClientType):
    self.clientType = setClientType
  def setClientSize(self, newClientSize):
    self.clientSize = newClientSize
  def setClientSince(self, newClientSince):
    self.clientSince = newClientSince
  def setIsCreditWorthy(self, newIsCreditWorthy):
    self.isCreditWorthy = newIsCreditWorthy
  def setIsDealer(self, newIsDealer):
    self.isDealer = newIsDealer
class Colors:
  #Attributes
  colorID=0
  color=""
  #Methods
  def __init__(self, colorID, color):
    self.colorID = colorID
    self.color = color
 #Gets
  def getColorID(self):
    return self.colorID
  def getColor(self):
    return self.color
  #Sets
  def setColorID(self, newColoID):
    self.colorID = newColoID
 def setColor(self, newColor):
    self.color = newColor
class Countries:
 #Attributes
 countryID=0
  countryName=""
  countryISOCode=""
  #Methods
  def __init__(self, countryID, countryName, countryISOCode):
    self.countryID = countryID
```

```
self.countryName = countryName
   self.countryISOCode = countryISOCode
 #Gets
 def getCountryID(self):
   return self.countryID
 def getCountryName(self):
   return self.countryName
 def getCountryISOCode(self):
   return self.countryISOCode
 #Sets
 def setCountryID(self, newCountryID):
   self.countryID = newCountryID
 def setCountryName(self, newCountryName):
   self.countryName = newCountryName
 def setCountryISOCode(self, newCountryISOCode):
   self.countryISOCode = newCountryISOCode
class Stock:
 #Attributes
 stockID=0
 make=""
 model=""
 colorID=""
 vehicleType=""
 costPrice=0.0
 spareParts=0.0
 laborCost=0.0
 registrationDate=""
 mileage=0.0
 purchaseDate=""
 vehicleAgeInYears=0
 #Methods
 def __init__(self, stockID, make, model, colorID, vehicleType, costPrice, spareParts,
            laborCost, registrationDate, mileage, purchaseDate, vehicleAgeInYears):
   self.stockID=stockID
   self.make=make
   self.model=model
   self.colorID=colorID
   self.vehicleType=vehicleType
   self.costPrice=costPrice
   self.spareParts=spareParts
   self.laborCost=laborCost
   self.registrationDate=registrationDate
   self.mileage=mileage
   self.purchaseDate=purchaseDate
   self.vehicleAgeInYears=vehicleAgeInYears
 def infoBasic(self):
   print(f"Make: {self.make}, Model: {self.model}, vehicle type: {self.vehicleType}")
```

```
#Gets
def getStockID(self):
 return self.stockID
def getMake(self):
 return self.make
def getModel(self):
  return self.model
def getColorID(self):
  return self.colorID
def getVehicleType(self):
  return self.vehicleType
def getCostPrice(self):
  return self.costPrice
def getSpareParts(self):
 return self.spareParts
def getLaborCost(self):
 return self.laborCost
def getRegistrationDate(self):
 return self.registrationDate
def getMileage(self):
  return self.mileage
def getPurchaseDate(self):
 return self.purchaseDate
def getVehicleAgeInYears(self):
 return self.vehicleAgeInYears
#Sets
def SetStockID(self, newStockID):
 self.stockID = newStockID
def SetMake(self, newMake):
 self.make = newMake
def SetModel(self, newModel):
  self.model = newModel
def SetColorID(self, newColorID):
 Self.colorID = newColorID
def SetVehicleType(self, newVehicleType):
 self.vehicleType = newVehicleType
def SetCostPrice(self, newCostPrice):
 self.costPrice = newCostPrice
def SetSpareParts(self, newSpareParts):
 self.spareParts = newSpareParts
```

```
def SetLaborCost(self, newLaborCost):
   self.laborCost = newLaborCost
 def SetRegistrationDate(self, newRegistrationDate):
   self.registrationDate = newRegistrationDate
 def SetMileage(self, newMileage):
   self.mileage = newMileage
 def SetPurchaseDate(self, newPurchaseDate):
   self.purchaseDate = newPurchaseDate
 def SetVehicleAgeInYears(self, newVehicleAgeInYears):
   self.vehicleAgeInYears = newVehicleAgeInYears
class Invoices:
 #Attributes
 invoiceID=0
 invoiceNumber=""
 clientID=0
 invoiceDate=""
 totalDiscount=0.0
 deliveryCharge=0.0
 invoicedDateKey=0
 #Methods
 def __init__(self, invoiceID, invoiceNumber, clientID, invoiceDate, totalDiscount,
            deliveryCharge, invoiceDateKey):
   sefl.invoiceID=invoiceID
   sefl.invoiceNumber=invoiceNumber
   sefl.clientID=clientID
   sefl.invoiceDate=invoiceDate
   sefl.totalDiscount=totalDiscount
   sefl.deliveryCharge=deliveryCharge
   self.invoiceDateKey=invoiceDateKey
 #Gets
 def getInvoiceID(self):
   return self.invoiceID
 def getInvoiceNumber(self):
   return self.invoiceNumber
 def getClientID(self):
   return self.clientID
 def getInvoiceDate(self):
   return self.invoiceDate
 def getTotalDiscount(self):
   return self.totalDiscount
```

```
def getDeliveryCharge(self):
   return self.deliveryCharge
 def getInvoiceDateKey(self):
   return self.invoiceDateKey
 #Sets
 def setInvoiceID(self, newInvoiceID):
   self.invoiceID = newInvoiceID
 def setInvoiceNumber(self, newInvoiceNumber):
   self.invoiceNumber = newInvoiceNumber
 def setClientID(self, newClientID):
   self.clientID = newClientID
 def setInvoiceDate(self, newInvoiceDate):
   self.invoiceDate = newInvoiceDate
 def setTotalDiscount(self, newTotalDiscount):
   self.totalDiscount = newTotalDiscount
 def setDeliveryCharge(self, newDeliveryCharge):
   self.deliveryCharge = newDeliveryCharge
 def setInvoiceDateKey(self, newInvoiceDateKey):
   self.invoiceDateKey = newInvoiceDateKey
class InvoiceLines:
 #Attributes
 invoiceLineID=0
 invoiceID=0
 stockID=0
 salePrice=0.0
 lineItem=0
 #Methods
 def __init__(self, invoiceLineID, invoiceID, stockID, salePrice, lineItem):
   self.invoiceLineID=invoiceLineID
   self.invoiceID=invoiceID
   self.stockID=stockID
   self.salePrice=salePrice
   self.lineItem=lineItem
 #Gets
 def getInvoiceLineID(self):
   return self.invoiceLineID
 def getInvoiceID(self):
   return self.invoiceID
 def getStockID(self):
```

```
return self.stockID
 def getSalePrice(self):
   return self.salePrice
 def getLineItem(self):
   return self.lineItem
 #Gets
 def SetInvoiceLineID(self, newInvoiceLineID):
   self.invoiceLineID = newInvoiceLineID
 def SetInvoiceID(self, newInvoiceID):
   self.invoiceID = newInvoiceID
 def SetStockID(self, newStockID):
   self.stockID = newStockID
 def SetSalePrice(self, newSalePrice):
   self.salePrice = newSalePrice
 def SetLineItem(self, newLineItem):
   self.lineItem = newLineItem
class DateDimension:
 #Attributes
 dateKey=0
 year=0
 monthNum=0
 monthFull=""
 monthAbbr=""
 quarterNum=0
 quarterFull=""
 quarterAbbr=""
 yearAndQuarterNum=0
 quarterAbbrAndYear=""
 monthAbbrAndYear=""
 monthAndYear=""
 monthName=""
 monthNameAbbr=""
 quarterAndYear=""
 quarterAndYearAbbr2=""
 yearAndMonthNum=0
 #Methods
 def __init__(self, dateKey, year, monthNum, monthFull, monthAbbr, quarterNum,
            quarterFull, quarterAbbr, yearAndQuarterNum, quarterAbbrAndYear,
            monthAbbrAndYear, monthAndYear, monthName, monthNameAbbr, quarterAndYear,
            quarterAndYearAbbr2, yearAndMonthNum):
   Self.dateKey=dateKey
   Self.year=year
   Self.monthNum=monthNum
   Self.monthFull=monthFull
   Self.monthAbbr=monthAbbr
   Self.quarterNum=quarterNum
```

```
Self.quarterFull=quarterFull
  Self.quarterAbbr=quarterAbbr
  Self.yearAndQuarterNum=yearAndQuarterNum
  Self.quarterAbbrAndYear=quarterAbbrAndYear
  Self.monthAbbrAndYear=monthAbbrAndYear
  Self.monthAndYear=monthAndYear
  Self.monthName=monthName
  Self.monthNameAbbr=monthNameAbbr
  Self.quarterAndYear=quarterAndYear
  Self.quarterAndYearAbbr2=quarterAndYearAbbr2
  Self.yearAndMonthNum=yearAndMonthNum
#Gets
def getDateKey(self):
  return self.dateKey
def getYear(self):
  return self.year
def getMonthNum(self):
  return self.monthNum
def getMonthFull(self):
  return self.monthFull
def getMonthAbbr(self):
  return self.monthAbbr
def getQuarterNum(self):
  return self.quarterNum
def getQuarterFull(self):
  return self.quarterFull
def getQuarterAbbr(self):
  return self.quarterAbbr
def getYearAndQuarterNum(self):
  return self.yearAndQuarterNum
def getQuarterAbbrAndYear(self):
  return self.quarterAbbrAndYear
def getMonthAbbrAndYear(self):
  return self.monthAbbrAndYear
def getMonthAndYear(self):
  return self.monthAndYear
def getMonthName(self):
  return self.monthName
def getMonthNameAbbr(self):
  return self.monthNameAbbr
def getQuarterAndYear(self):
  return self.quarterAndYear
```

```
def getQuarterAndYearAbbr2(self):
  return self.quarterAndYearAbbr2
def getYearAndMonthNum(self):
  return self.yearAndMonthNum
#Sets
def setDateKey(self, newDateKey):
  self.dateKey = newDateKey
def setYear(self, newYear):
  self.year = newYear
def setMonthNum(self, newMonthNum):
  self.monthNum = newMonthNum
def setMonthFull(self, newMonthFull):
  self.monthFull = newMonthFull
def setMonthAbbr(self, newMonthAbbr):
  self.monthAbbr = newMonthAbbr
def setQuarterNum(self, newQuarterNum):
  self.quarterNum = newQuarterNum
def setQuarterFull(self, newQuarterFull):
  self.quarterFull = newQuarterFull
def setQuarterAbbr(self, newQuarterAbbr):
  self.quarterAbbr = newQuarterAbbr
def setYearAndQuarterNum(self, newYearAndQuarterNum):
  self.yearAndQuarterNum = newYearAndQuarterNum
def setQuarterAbbrAndYear(self, newQuarterAbbrAndYear):
  self.quarterAbbrAndYear = newQuarterAbbrAndYear
def setMonthAbbrAndYear(self, newMonthAbbrAndYear):
  self.monthAbbrAndYear = newMonthAbbrAndYear
def setMonthAndYear(self, newMonthAndYear):
  self.monthAndYear = newMonthAndYear
def setMonthName(self, newMonthName):
  self.monthName = newMonthName
def setMonthNameAbbr(self, newMonthNameAbbr):
  self.monthNameAbbr = newMonthNameAbbr
def setQuarterAndYear(self, newQuarterAndYear):
  self.quarterAndYear = newQuarterAndYear
def setQuarterAndYearAbbr2(self, newQuarterAndYearAbbr2):
  self.quarterAndYearAbbr2 = newQuarterAndYearAbbr2
def setYearAndMonthNum(self, newYearAndMonthNum):
  self.yearAndMonthNum = newYearAndMonthNum
```

2. Based on the point number one, define a class to include another kind of transportation vehicle. Include properties and methods that you consider required.

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