```python
from enum import Enum

class Customer:
    def __init__(self,firstName,lastName,phoneNumber,customerEID,email):
        self.__firstName = firstName
        self.__lastName = lastName
        self.__phoneNumber = phoneNumber
        self.__customerEID = customerEID
        self.__email = email

    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 setCustomerEID(self,customerEID):
        self.__customerEID = customerEID
    def getCustomerEID(self):
        return self.__customerEID
    def setEmail(self,email):
        self.__email = email
    def getEmail(self):
        return self.__email

    def getFullName(self):
        return self.__firstName + " " + self.__lastName

class Color(Enum):
    white = 1
    Black = 2
    Silver = 3
    Red = 4


class Vehicle:
    def __init__(self,make,model,year,color,ID):
        self.__make = make
        self.__model = model
        self.__year = year
        self.__color =color
        self.__ID = ID


    def setMake(self,make):
        self.__make = make
    def getMake(self):
        return self.__make
    def setModel(self,model):
        self.__model = model
    def getModel(self):
        return self.__model
    def setYear(self,year):
        self.__year = year
    def getyear(self):
        return self.__year
    def setColor(self,color):
        self.__color =color
    def getColor(self):
        return self.__color
    def getID(self):
        return self.__ID

    def getVehicleInfo(self):
        return self.__make + " " + self.__model + " " + str(self.__year)

class Service:
    def __init__(self,name,description,duration,price):
        self.__name =name
        self.__description =description
        self.__duration =duration
        self.__price =price

    def setName(self, name):
        self.__name =name
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    def getName(self):
        return self.__name
    def setDescription(self,description):
        self.__description=description
    def getDescription(self):
        return self.__dscription
    def setDuration(self,duration):
        self.__duration=duration
    def getDuration(self):
        return self.__duration
    def setPrice(self,price):
        self.__price = price
    def getPrice(self):
        return self.__price


class Receipt:
    def __init__(self,Customer,mechanic,vehicle, services, date, taxes, discount):
        self.__customer=customer
        self.__mechainc=mechanic
        self.__vehicle=vehicle
        self.__services=services
        self.__date =date
        self.__taxes=taxes
        self.__discount=discount
    def setMechanic(self,mechanic):
        self.__mechainc = mechanic
    def getMechanic(self):
        return self.__mechainc
    def setDate(self,date):
        self.__date = date
    def getDate(self):
        return self.__date
    def setTaxes(self,taxes):
        self.__taxes=taxes
    def getTaxes(self):
        return self.__taxes
    def setDiscount(self,discount):
        self.__discount=discount
    def getDiscount(self):
        return self.__discount


    def total(self):
        total=sum(Service.getPrice() for Service in self.__services)
        total+=self.__taxes
        total-=self.__discount
        return total

    def PrintReceipt(self):
        print("Customer Name: ",self.__customer.getFullName())
        print("cell phone Number:",self.__customer.getPhoneNumber())
        print("Email: ",self.__customer.getEmail())
        print("Date:",self.__date)
        print("Mechanic Name:",self.__mechainc)
        print("Vehicle Type:",self.__vehicle.getVehicleInfo())
        print("Vehicle color: ",self.__vehicle.getColor())
        print("Vehicle ID:",self.__vehicle.getID())
        print("Services:",)

        for service in self.__services:
            print(service.getName() , "......................",service.getPrice(),"AED",".","duration:", service.getDuration
        print("Taxes:", self.__taxes)
        print("Discount:", self.__discount)
        print("Total:", self.total())


# Create a Customer object
customer = Customer("James", "Jones", "816-897-9862","1234567890", "jamesjones@example.com")

# Create a Vehicle object
vehicle = Vehicle("Nissan", "Altima", 2014, Color.Silver.name, "AD-89034")

# Create a Service object
diagnostics = Service("1.Diagnostics","looking at the care and dlajd","5 hours", 15.0)
oilReplacement = Service("2.Oil Replacement","changing the oil ","8 h",120.49)
oilFilterParts = Service("3.Oil Filter Parts","changing oil Filter Parts","8 h", 35)
tireReplacement =Service("4.Tire Replacement 2 ","replace the tire ","5 h", 100)
tire= Service("5.Tire Replacement (2) ","replace the tire ","5 h", 160)


# Create a Receipt object
receipt = Receipt(customer, mechanic="Hans K", vehicle=vehicle, services=[diagnostics,oilReplacement,oilFilterParts,tireReplac
```

```
#·Print·the·receipt
receipt.PrintReceipt()
```

```
Customer Name:  James Jones
cell phone Number: 816-897-9862
Email:   jamesjones@example.com
Date: March 13, 2022
Mechanic Name: Hans K
Vehicle Type: Nissan Altima 2014
Vehicle color:  Silver
Vehicle ID: AD-89034
Services:
1.Diagnostics ...................... 15.0 AED . duration: 5 hours
2.Oil Replacement ...................... 120.49 AED . duration: 8 h
3.Oil Filter Parts ...................... 35 AED . duration: 8 h
4.Tire Replacement 2  ...................... 100 AED . duration: 5 h
5.Tire Replacement (2)  ...................... 160 AED . duration: 5 h
Taxes: 51.5
Discount: 11.5
Total: 470.49
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