The Open University of Sri Lanka

Department of Electrical and Computer Engineering

Faculty of Engineering Technology

Bachelor of Software Engineering

EEI3372 - Programming in Python

Mini Project

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Introduction

This report is about designing and implementing a program for a cab service using python programming language. This report includes the flow chart and the source code of the program.

This company has five types of vehicles: cars, vans, three-wheelers, trucks, and lorries. Customers can request vehicles that suit their job. By running the source code on a python compiler, we can open the program.

After running the program, we can see there are five choices:

[1] - Add new vehicle

[2] - Remove vehicle

[3] - Hire vehicle

[4] - Release vehicle

[5] - Check available vehicles

By pressing a number from 1 to 5, you can access different features of the program. Inside these features list, there are 5 functionalities in each feature to select the vehicle type you need.

[1] - Car

[2] - Van

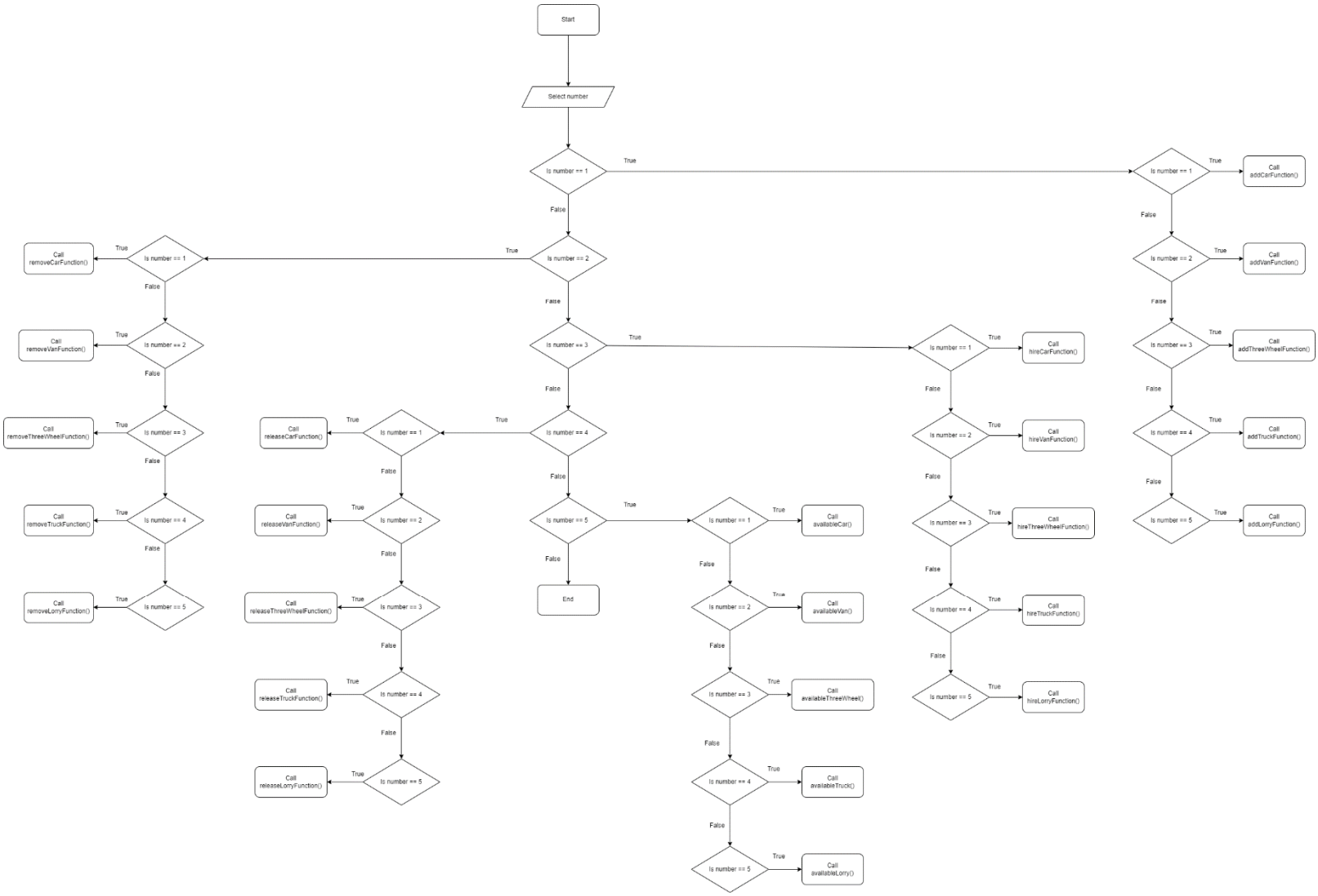
[3] - Three-wheeler

[4] - Truck

[5] - Lorry

Again, when we press a number from 1 - to 5, the related function will be called, and it gets the job done.

Flowchart



Link to the flowchart:

https://drive.google.com/file/d/11qUqNrlt-7SMiAaWxc2Zm5Xcsb_UWBN_/view?usp=sharing

Source code

```
# Vehicle list
cars = [
    {
      "VehicalNumber": "CAR5581",
      "NoOfSeats": 3,
      "AirCondition": "AC"
    },
    {
      "VehicalNumber": "CAR5661",
      "NoOfSeats": 3,
      "AirCondition": "Non AC"
    },
    {
      "VehicalNumber": "CAR2511",
      "NoOfSeats": 4,
      "AirCondition": "AC"
    },
    {
      "VehicalNumber": "CAR9908",
      "NoOfSeats": 4,
      "AirCondition": "Non AC"
    },
]

vans = [
```

```
    {
      "VehicalNumber": "VAN2080",
      "NoOfSeats": 6,
      "AirCondition": "AC"
    },
    {
      "VehicalNumber": "VAN6593",
      "NoOfSeats": 6,
      "AirCondition": "Non AC"
    },
    {
      "VehicalNumber": "VAN8933",
      "NoOfSeats": 7,
      "AirCondition": "AC"
    },
    {
      "VehicalNumber": "VAN4712",
      "NoOfSeats": 8,
      "AirCondition": "AC"
    },
    {
      "VehicalNumber": "VAN8022",
      "NoOfSeats": 8,
      "AirCondition": "Non AC"
    },
]

threeWheelers = [
```

```
    {
      "VehicalNumber": "TUK2054",
      "NoOfSeats": 3,
    },
    {
      "VehicalNumber": "TUK3380",
      "NoOfSeats": 3,
    },
    {
      "VehicalNumber": "TUK6895",
      "NoOfSeats": 3,
    },
    {
      "VehicalNumber": "TUK4715",
      "NoOfSeats": 3,
    },
]

trucks = [
    {
      "VehicalNumber": "TRK5361",
      "Size": 12
    },
    {
      "VehicalNumber": "TRk5578",
      "Size": 7
    },
    {
```

```
    "VehicalNumber": "TRK1181",
    "Size": 7
  },
  {
    "VehicalNumber": "TRK9801",
    "Size": 12
  },
]

lorries = [
  {
    "VehicalNumber": "LRY5111",
    "Load": 2500
  },
  {
    "VehicalNumber": "LRY7278",
    "Load": 3500
  },
  {
    "VehicalNumber": "LRY1941",
    "Load": 2500
  },
  {
    "VehicalNumber": "LRY9252",
    "Load": 3500
  },
  {
    "VehicalNumber": "LRY1871",
```

```
    "Load": 3500
  },
]

# Hired vehicle list
hiredCar = [
  {
    "VehicalNumber": "CAR1465",
    "NoOfSeats": 4,
    "AirCondition": "AC"
  },
  {
    "VehicalNumber": "CAR1906",
    "NoOfSeats": 3,
    "AirCondition": "Non AC"
  },
  {
    "VehicalNumber": "CAR3429",
    "NoOfSeats": 3,
    "AirCondition": "AC"
  },
]

hiredVan = [
  {
    "VehicalNumber": "VAN2381",
    "NoOfSeats": 6,
    "AirCondition": "AC"
```

```
    },
    {
      "VehicalNumber": "VAN7460",
      "NoOfSeats": 8,
      "AirCondition": "Non AC"
    },
    {
      "VehicalNumber": "VAN3029",
      "NoOfSeats": 6,
      "AirCondition": "Non AC"
    },
]

hiredTw = [
    {
      "VehicalNumber": "TUK9680",
      "NoOfSeats": 3,
    },
    {
      "VehicalNumber": "TUK3510",
      "NoOfSeats": 3,
    },
    {
      "VehicalNumber": "TUK7620",
      "NoOfSeats": 3,
    },
]
```

```
hiredTruck = [
    {
      "VehicalNumber": "TRK7551",
      "Size": 7
    },
    {
      "VehicalNumber": "TRK9961",
      "Size": 12
    },
    {
      "VehicalNumber": "TRK9065",
      "Size": 12
    },
]

hiredLorry = [
    {
      "VehicalNumber": "LRY1495",
      "Load": 3500
    },
    {
      "VehicalNumber": "LRY0171",
      "Load": 2500
    },
    {
      "VehicalNumber": "LRY6502",
      "Load": 2500
    },
```

```
]


# Add new vehicle functions


# add car
def addCarFuntion(NoOfSeats,AirCondition,VehicalNumber):
    newDictionary = {
        "VehicalNumber": VehicalNumber,
        "NoOfSeats": NoOfSeats,
        "AirCondition": AirCondition
    }
    cars.append(newDictionary)
    print("\nThe car number ", VehicalNumber," was successfully added to the
system.....\n")


    print("Car List:")
    for car in cars:
        print("ID: ", cars.index(car) , ", vehical number: ", car['VehicalNumber'],", seats: ",
        car['NoOfSeats'], ", AC: ", car['AirCondition'])


# add van
def addVanFuntion(NoOfSeats,AirCondition,VehicalNumber):
    newDictionary = {
        "VehicalNumber": VehicalNumber,
        "NoOfSeats": NoOfSeats,
        "AirCondition": AirCondition
    }
    vans.append(newDictionary)
```

```
    print("\nThe van number ", VehicalNumber," was successfully added to the
system.....\n")


    print("Van List")
    for van in vans:
        print("ID: ", vans.index(van) , ", vehical number: ", van['VehicalNumber'],", seats: ",
        van['NoOfSeats'], ", AC: ", van['AirCondition'])


# add 3wheeler
def addThreewheelerFuntion(VehicalNumber,NoOfSeats):
    newDictionary = {
        "VehicalNumber": VehicalNumber,
        "NoOfSeats": NoOfSeats
    }
    threeWheelers.append(newDictionary)


    print("\nThe threeWheeler number ", VehicalNumber," was successfully added to the
system.....\n")


    print("ThreeWheelers List:")
    for threeWheeler in threeWheelers:
        print("ID: ", threeWheelers.index(threeWheeler) ,"Vehical number: ",
threeWheeler['VehicalNumber'],", seats: ",
        threeWheeler['NoOfSeats'])


# add truck
def addTruckFuntion(Size,VehicalNumber):
    newDictionary = {
        "VehicalNumber": VehicalNumber,
```

```
        "Size": Size
    }
    trucks.append(newDictionary)
    print("\nThe truk number ", VehicalNumber," was successfully added to the system.....\n")

    print("Truck List:")
    for truck in trucks:
        print("ID: ", trucks.index(truck) , ", vehical number: ", truck['VehicalNumber'],", Size: ",
        truck['Size']," ft")

# add lorry
def addLorryFuntion(Load,VehicalNumber):
    newDictionary = {
        "VehicalNumber": VehicalNumber,
        "Load": Load
    }
    lorries.append(newDictionary)
    print("\nThe lorry number ", VehicalNumber," was successfully added to the system.....\n")

    print("Lorry List:")
    for lorry in lorries:
        print("ID: ", lorries.index(lorry) , ", vehical number: ", lorry['VehicalNumber'],", Load: ",
        lorry['Load']," kg")

# Remove vehicle functions
```

```
# remove car
def removeCarFuntion():
    print("Car List:")
    for car in cars:
        print("ID: ", cars.index(car) , ", vehical number: ", car['VehicalNumber'],", seats: ",
        car['NoOfSeats'], ", AC: ", car['AirCondition'])

    delItem = int(input("\nSelect the ID: "))

    print("\nThe car number ", cars[delItem]["VehicalNumber"], " removed from the
system.....\n")

    cars.pop(delItem)

    print("Car List:")
    for car in cars:
        print("ID: ", cars.index(car) , ", vehical number: ", car['VehicalNumber'],", seats: ",
        car['NoOfSeats'], ", AC: ", car['AirCondition'])

# remove van
def removeVanFuntion():
    print("Van List")
    for van in vans:
        print("ID: ", vans.index(van) , ", vehical number: ", van['VehicalNumber'],", seats: ",
        van['NoOfSeats'], ", AC: ", van['AirCondition'])

    delItem = int(input("\nSelect the ID: "))
```

```
    print("\nThe van number ", vans[delItem]["VehicalNumber"], " removed from the system.....\n")


    vans.pop(delItem)


    print("Van List")
    for van in vans:
        print("ID: ", vans.index(van) , ", vehical number: ", van['VehicalNumber'],", seats: ",
        van['NoOfSeats'], ", AC: ", van['AirCondition'])


# remove 3wheeler
def removeThreeWheelersFuntion():
    print("ThreeWheelers List:")
    for threeWheeler in threeWheelers:
        print("ID: ", threeWheelers.index(threeWheeler) ,"Vehical number: ", threeWheeler['VehicalNumber'],", seats: ",
        threeWheeler['NoOfSeats'])


    delItem = int(input("\nSelect the ID: "))


    print("\nThe threeWheeler number ", threeWheelers[delItem]["VehicalNumber"], " removed from the system.....\n")


    threeWheelers.pop(delItem)


    print("ThreeWheelers List:")
    for threeWheeler in threeWheelers:
        print("ID: ", threeWheelers.index(threeWheeler) ,"Vehical number: ", threeWheeler['VehicalNumber'],", seats: ",
        threeWheeler['NoOfSeats'])
```

```
# remove truck
def removeTruckFuntion():
    print("Truck List:")
    for truck in trucks:
        print("ID: ", trucks.index(truck) , ", vehical number: ", truck['VehicalNumber'],", Size:
",
        truck['Size']," ft")


    delItem = int(input("\nSelect the ID: "))


    print("\nThe truck number ", trucks[delItem]["VehicalNumber"], " removed from the
system.....\n")


    trucks.pop(delItem)


    print("Truck List:")
    for truck in trucks:
        print("ID: ", trucks.index(truck) , ", vehical number: ", truck['VehicalNumber'],", Size:
",
        truck['Size']," ft")


# remove lorry
def removeLorryFuntion():
    print("Lorry List:")
    for lorry in lorries:
        print("ID: ", lorries.index(lorry) , ", vehical number: ", lorry['VehicalNumber'],", Load:
",
        lorry['Load']," kg")
```

```
    delItem = int(input("\nSelect the ID: "))

    print("\nThe lorry number ", lorries[delItem]["VehicalNumber"], " removed from the
system.....\n")

    lorries.pop(delItem)

    print("Lorry List:")
    for lorry in lorries:
        print("ID: ", lorries.index(lorry) , ", vehical number: ", lorry['VehicalNumber'],", Load:
",
        lorry['Load']," kg")

# hire vehicle functions

# hire car
def hireCarFunction():
    print("Car List:")
    for car in cars:
        print("ID: ", cars.index(car) , ", vehical number: ", car['VehicalNumber'],", seats: ",
        car['NoOfSeats'], ", AC: ", car['AirCondition'])

    CarIndex = int(input("\nSelect the ID: "))

    hiredCar.append(cars[CarIndex])

    print("\nThe car number ", cars[CarIndex]["VehicalNumber"], " hired.....\n")

    cars.pop(CarIndex)
```

```
    print("Hired List:")
    for hiringCar in hiredCar:
        print("ID: ", hiredCar.index(hiringCar) ,", vehical number: ",
hiringCar['VehicalNumber'],", seats: ",
        hiringCar['NoOfSeats'], ", AC: ", hiringCar['AirCondition'])

# hire van
def hireVanFunction():
    print("Van List")
    for van in vans:
        print("ID: ", vans.index(van) , ", vehical number: ", van['VehicalNumber'],", seats: ",
        van['NoOfSeats'], ", AC: ", van['AirCondition'])

    VanIndex = int(input("\nSelect the ID: "))

    hiredVan.append(vans[VanIndex])
    print("\nThe van number ", vans[VanIndex]["VehicalNumber"], " hired.....\n")
    vans.pop(VanIndex)

    print("Hired List:")
    for hiringVan in hiredVan:
        print("ID: ", hiredVan.index(hiringVan) ,", Vehical number: ",
hiringVan['VehicalNumber'],", seats: ",
        hiringVan['NoOfSeats'], ", AC: ", hiringVan['AirCondition'])

# hire 3wheeler
def hireThreeWheelerFunction():
```

```
    print("ThreeWheelers List:")
    for threeWheeler in threeWheelers:
        print("ID: ", threeWheelers.index(threeWheeler) ,"Vehical number: ",
threeWheeler['VehicalNumber'],", seats: ",
        threeWheeler['NoOfSeats'])

    threeWheelerIndex = int(input("\nSelect the ID: "))

    hiredTw.append(threeWheelers[threeWheelerIndex])
    print("\nThe threeWheeler number ",
threeWheelers[threeWheelerIndex]["VehicalNumber"], " hired.....\n")
    threeWheelers.pop(threeWheelerIndex)

    print("Hired List:")
    for hiringTw in hiredTw:
        print("ID: ", hiredTw.index(hiringTw) ,", Vehical number: ",
hiringTw['VehicalNumber'],", seats: ",
        hiringTw['NoOfSeats'])

# hire truck
def hireTruckFunction():
    print("Truck List:")
    for truck in trucks:
        print("ID: ", trucks.index(truck) , ", vehical number: ", truck['VehicalNumber'],", Size:
",
        truck['Size']," ft")

    TruckIndex = int(input("\nSelect the ID: "))

    hiredTruck.append(trucks[TruckIndex])
```

```
    print("\nThe truk number ", trucks[TruckIndex]["VehicalNumber"], " hired.....\n")


    trucks.pop(TruckIndex)


    print("Hired Truck List:")
    for hiringTruck in hiredTruck:
            print("ID: ", hiredTruck.index(hiringTruck) ,", vehical number: ",
hiringTruck['VehicalNumber'],", Size: ",
            hiringTruck['Size']," ft")


# hire lorry
def hireLorryFunction():
    print("Lorry List:")
    for lorry in lorries:
        print("ID: ", lorries.index(lorry) , ", vehical number: ", lorry['VehicalNumber'],", Load:
",
        lorry['Load']," kg")


    LorryIndex = int(input("\nSelect the ID: "))


    hiredLorry.append(lorries[LorryIndex])


    print("\nThe truk number ", lorries[LorryIndex]["VehicalNumber"], " hired.....\n")


    lorries.pop(LorryIndex)


    print("Hired Lorry List:")
    for hiringL in hiredLorry:
```

```
        print("ID: ", hiredLorry.index(hiringL) ,", vehical number: ",
hiringL['VehicalNumber'],", Load: ",
        hiringL['Load']," kg")


# release vehicle functions


# release Car
def releaseCarFunction():
    print("Hired List:")
    for hiringCar in hiredCar:
        print("ID: ", hiredCar.index(hiringCar) ,", vehical number: ",
hiringCar['VehicalNumber'],", seats: ",
        hiringCar['NoOfSeats'], ", AC: ", hiringCar['AirCondition'])


    CarIndex = int(input("\nSelect the ID: "))


    print("\nThe car number ", hiredCar[CarIndex]["VehicalNumber"], " released.....\n")


    hiredCar.pop(CarIndex)
    cars.append(CarIndex)


    print("Hired List:")
    for hiringCar in hiredCar:
        print("ID: ", hiredCar.index(hiringCar) ,", vehical number: ",
hiringCar['VehicalNumber'],", seats: ",
        hiringCar['NoOfSeats'], ", AC: ", hiringCar['AirCondition'])


# release van
def releaseVanFunction():
```

```
    print("Hired List:")
    for hiringVan in hiredVan:
        print("ID: ", hiredVan.index(hiringVan) ,", Vehical number: ",
hiringVan['VehicalNumber'],", seats: ",
        hiringVan['NoOfSeats'], ", AC: ", hiringVan['AirCondition'])

    VanIndex = int(input("\nSelect the ID: "))

    print("\nThe van number ", hiredVan[VanIndex]["VehicalNumber"], "
released.....\n")

    hiredVan.pop(VanIndex)
    vans.append(VanIndex)

    print("Hired List:")
    for hiringVan in hiredVan:
        print("ID: ", hiredVan.index(hiringVan) ,", Vehical number: ",
hiringVan['VehicalNumber'],", seats: ",
        hiringVan['NoOfSeats'], ", AC: ", hiringVan['AirCondition'])

# release 3wheeler
def releaseThreeWheelerFunction():
    print("Hired List:")
    for hiringTw in hiredTw:
        print("ID: ", hiredTw.index(hiringTw) ,", Vehical number: ",
hiringTw['VehicalNumber'],", seats: ",
        hiringTw['NoOfSeats'])

    threeWheelerIndex = int(input("\nSelect the ID: "))
```

```
    print("\nThe threeWheeler number ", hiredTw[threeWheelerIndex]["VehicalNumber"],
" released.....\n")


    hiredTw.pop(threeWheelerIndex)

    threeWheelers.append(threeWheelerIndex)


    print("Hired List:")

    for hiringTw in hiredTw:

        print("ID: ", hiredTw.index(hiringTw) ,", Vehical number: ",
hiringTw['VehicalNumber'],", seats: ",

        hiringTw['NoOfSeats'])


# release Truck

def releaseTruckFunction():

    print("Hired Truck List:")

    for hiringTruck in hiredTruck:

            print("ID: ", hiredTruck.index(hiringTruck) ,", vehical number: ",
hiringTruck['VehicalNumber'],", Size: ",

            hiringTruck['Size']," ft")


    TruckIndex = int(input("\nSelect the ID: "))


    print("\nThe trucks number ", hiredTruck[TruckIndex]["VehicalNumber"], "
released.....\n")


    hiredTruck.pop(TruckIndex)

    trucks.append(TruckIndex)


    print("Hired Truck List:")

    for hiringTruck in hiredTruck:
```

```
            print("ID: ", hiredTruck.index(hiringTruck) ,", vehical number: ",
hiringTruck['VehicalNumber'],", Size: ",
            hiringTruck['Size']," ft")


# release Lorry
def releaseLorryFunction():
    print("Hired Lorry List:")
    for hiringL in hiredLorry:
        print("ID: ", hiredLorry.index(hiringL) ,", vehical number: ",
hiringL['VehicalNumber'],", Load: ",
            hiringL['Load']," kg")


    LorryIndex = int(input("\nSelect the ID: "))


    print("\nThe lorries number ", hiredLorry[LorryIndex]["VehicalNumber"], "
released.....\n")


    hiredLorry.pop(LorryIndex)
    lorries.append(LorryIndex)


    print("Hired Lorry List:")
    for hiringL in hiredLorry:
        print("ID: ", hiredLorry.index(hiringL) ,", vehical number: ",
hiringL['VehicalNumber'],", Load: ",
        hiringL['Load']," kg")


# Available vehical functions


# available car
def availableCars():
```

```
    print("\nAvailable Car List:")
    for car in cars:
        print("ID: ", cars.index(car) , ", vehical number: ", car['VehicalNumber'],", seats: ",
        car['NoOfSeats'], ", AC: ", car['AirCondition'])

#available van
def availableVans():
    print("\nAvailable Van List")
    for van in vans:
        print("ID: ", vans.index(van) , ", vehical number: ", van['VehicalNumber'],", seats: ",
        van['NoOfSeats'], ", AC: ", van['AirCondition'])

# available 3wheeler
def availableThreewheels():
    print("\nAvailable ThreeWheelers List:")
    for threeWheeler in threeWheelers:
        print("ID: ", threeWheelers.index(threeWheeler) ,"Vehical number: ",
threeWheeler['VehicalNumber'],", seats: ",
        threeWheeler['NoOfSeats'])

# available truck
def availableTrucks():
    print("\nAvailable Truck List:")
    for truck in trucks:
        print("ID: ", trucks.index(truck) , ", vehical number: ", truck['VehicalNumber'],", Size:
",
        truck['Size']," ft")

# available Lorry
```

```
def availableLorries():
    print("\nAvailable Lorry List:")
    for lorry in lorries:
        print("ID: ", lorries.index(lorry) , ", vehical number: ", lorry['VehicalNumber'],", Load:
",
        lorry['Load']," kg")


# User Part
print("Welcome to the Cab Service...\nSelect the number What you want to do..\n")
print("[1]-Add new vehicle\n[2]-Remove vehicle\n[3]-Hire vehicle\n[4]-Release
vehicle\n[5]-Check available vehicle\n")
firstInput = int(input("Enter Number:-"))


# add vehicle
if firstInput == 1:
    print("Welcome to add new vehicle...\nEnter number of vehicle type you want to
add...\n")
    print("[1]-Car\n[2]-Van\n[3]-Three Wheeler\n[4]-Truck\n[5]-Lorry\n")
    addInput = int(input("Enter Number:-"))


    # car
    if addInput == 1:
        VehicalNumber = input("Vehical Number: ")
        NoOfSeats = int(input("Enter the seat number: "))
        AirCondition = input("AC or Non-AC: ")
        addCarFuntion(NoOfSeats, AirCondition,VehicalNumber)


    # van
    elif addInput == 2:
```

```
        VehicalNumber = input("Enter vehical number: ")
        NoOfSeats = int(input("Enter the seat number: "))
        AirCondition = input("AC or Non-AC: ")
        addVanFuntion(NoOfSeats, AirCondition, VehicalNumber)

    # 3wheeler
    elif addInput == 3:
        VehicalNumber = input("Enter vehical number: ")
        NoOfSeats = int(input("Enter the seat number: "))
        addThreewheelerFuntion(VehicalNumber,NoOfSeats)

    # truck
    elif addInput == 4:
        VehicalNumber = input("Vehical Number: ")
        Size = int(input("Enter the size (feet): "))
        addTruckFuntion(Size,VehicalNumber)

    # lorry
    elif addInput == 5:
        VehicalNumber = input("Vehical Number: ")
        Load = int(input("Enter the load (kg): "))
        addLorryFuntion(Load,VehicalNumber)

    # error
    else:
        print("Please Enter Valid Number")

# delete vehicle
```

```
elif firstInput == 2:
    print("Welcome to remove vehicle...\nEnter number of vehicle type you want to remove...\n")
    print("[1]-Car\n[2]-Van\n[3]-Three Wheeler\n[4]-Truck\n[5]-Lorry\n")
    removeInput = int(input("Enter Number:-"))

    # car
    if removeInput == 1:
        removeCarFuntion()

    # van
    elif removeInput == 2:
        removeVanFuntion()

    # 3wheeler
    elif removeInput == 3:
        removeThreeWheelersFuntion()

    # truck
    elif removeInput == 4:
        removeTruckFuntion()

    # Lorry
    elif removeInput == 5:
        removeLorryFuntion()

    # error
    else:
        print("Please Enter Valid Number")
```

```
# hire vehicle
elif firstInput == 3:
    print("Welcome to hire vehicle...\nEnter number of vehicle type you want to hire...\n")
    print("[1]-Car\n[2]-Van\n[3]-Three Wheeler\n[4]-Truck\n[5]-Lorry\n")
    hireInput = int(input("Enter Number:-"))

    # car
    if hireInput == 1:
        hireCarFunction()

    # van
    elif hireInput == 2:
        hireVanFunction()

    # 3wheeler
    elif hireInput == 3:
        hireThreeWheelerFunction()

    # truck
    elif hireInput == 4:
        hireTruckFunction()

    # Lorry
    elif hireInput == 5:
        hireLorryFunction()

    # error
```

```
    else:
        print("Please Enter Valid Number")


# release vehicle
elif firstInput == 4:
    print("Welcome to release vehicle...\nEnter number of vehicle type you want to release...\n")
    print("[1]-Car\n[2]-Van\n[3]-Three Wheeler\n[4]-Truck\n[5]-Lorry\n")
    releaseInput = int(input("Enter Number:-"))


    # car
    if releaseInput == 1:
        releaseCarFunction()


    # van
    elif releaseInput == 2:
        releaseVanFunction()


    # 3wheeler
    elif releaseInput == 3:
        releaseThreeWheelerFunction()


    # truck
    elif releaseInput == 4:
        releaseTruckFunction()


    # Lorry
    elif releaseInput == 5:
        removeLorryFuntion()
```

```
    # error
    else:
        print("Please Enter Valid Number")


# available vehicle
elif firstInput == 5:
    print("Welcome to check available vehicle...\nEnter number of vehicle type you want
to release...\n")
    print("[1]-Car\n[2]-Van\n[3]-Three Wheeler\n[4]-Truck\n[5]-Lorry\n")
    avaInput = int(input("Enter Number:-"))


    # car
    if avaInput == 1:
        availableCars()


    # van
    elif avaInput == 2:
        availableVans()


    # 3wheeler
    elif avaInput == 3:
        availableThreewheels()


    # truck
    elif avaInput == 4:
        availableTrucks()


    # Lorry
```

```
    elif avaInput == 5:
        availableLorries()

    # error
    else:
        print("Please Enter Valid Number")

# invalid number
else:
    print("Please Enter Valid Number")
```

Conclusion

This program is specially designed for the given cab service. Using this program, they can increase their productivity and save a lot of time.

I learned the advantages and disadvantages of the python language as well.

Advantages:

- Python language has simple syntax, so it helps the programmer to program the software fast.
- Python language is an open-source language, so the company does not need to buy Python language.

Disadvantages:

- Python language has a little slower when compared with other languages like Java, C, etc.
- Programming in Python is more likely to have runtime errors.

By carrying out this project,

- Practice using python language to solve real-world problems
- Implement the program step by step related to the solution found.
- Identifying customer needs and requirements when writing a program and how to design and adapt the program accordingly.
- Problems that arise when implementing a program and how to solve them.

Thank You!