ASSIGNMENT 5

Q1.

```
[2]  class vehicle:

       def __init__(self,milage,max_speed,name,seat_cap):
         self.milage=milage
         self.max_speed=max_speed
         self.name=name
         self.v1=self.inner(seat_cap)
         self.v1.fare()

       class inner:

           def __init__(self,seat_cap):
             self.seat_cap=seat_cap
             self.fare

           def fare(self):
             fare1= (self.seat_cap*20)
             fare=fare1 + (10/100 * fare1)
             return fare

       def vehicle_info(self):
           print("Name of vehicle:",self.name)
           print("Max_speed of vehicle:",self.max_speed)
           print("Milage of vehicle:",self.milage)
           print("Fare of vehicle:",self.v1.fare())


[3]  bus=vehicle(50,500,"car",3)
```

```
[3]  bus=vehicle(50,500,"car",3)

     bus.vehicle_info()

     Name of vehicle: car
     Max_speed of vehicle: 500
     Milage of vehicle: 50
     Fare of vehicle: 66.0
```

Q2.

```
class vehicle:

  def __init__(self,milage,max_speed,name,seat_cap):
    self.milage=milage
    self.max_speed=max_speed
    self.name=name
    self.seat_cap=seat_cap

  def fare(self):
    fare1= (self.seat_cap*20)
    fare=fare1 + (10/100 * fare1)
    return fare

  def vehicle_info(self):
      print("\nName of vehicle:",self.name)
      print("Max_speed of vehicle:",self.max_speed)
```

```
      print("Milage of vehicle:",self.milage)
      print("Fare of vehicle:",self.fare())

class bus(vehicle):

  def __init__(self):
    self.seat_cap=40
    self.milage=40
    self.max_speed=60
    self.name="bus"

  def fare(self):
    fare1= (self.seat_cap*20)
    fare=fare1 + (10/100 * fare1)
    return fare

class car(vehicle):

  def __init__(self):
    self.seat_cap=3
    self.milage=40
    self.max_speed=100
    self.name="car"

  def fare(self):
    fare1= (self.seat_cap*20)
    fare=fare1 + (10/100 * fare1)
    return fare



b=bus()
b.vehicle_info()

b=car()
b.vehicle_info()
```

```
Name of vehicle: bus
Max_speed of vehicle: 60
Milage of vehicle: 40
Fare of vehicle: 880.0

Name of vehicle: car
Max_speed of vehicle: 100
Milage of vehicle: 40
Fare of vehicle: 66.0
```