Lab Exercises Chapter 9 Solutions

Declare a new class called Vehicle without any attributes and methods

```
class Vehicle :
```

Add some attributes to the Vehicle class such as Name, Speed, Mileage

```
class Vehicle :
   def __init__(self, name, speed, mileage):
      self.name = name
      self.speed = speed
      self.mileage = mileage
```

Add a method to the Vehicle class to return the vehicle name

```
class Vehicle :
   def __init__(self, name, speed, mileage):
      self.name = name
      self.speed = speed
      self.mileage = mileage
   def getName(self):
      print (self.name)
```

Create a child class called Car that will inherit all the variables and methods of the Vehicle class

```
class Car (Vehicle):
   def  __init__ (self, name, speed, mileage):
      super().__init__(name, speed, mileage)
```

Create a child class called Taxi

```
class Taxi (Vehicle):
   def  __init__ (self, name, speed, mileage):
      super().__init__(name, speed, mileage)
```

Add a method to the Taxi class to collect the fair.

```
class Taxi (Vehicle):
   def  __init__ (self, name, speed, mileage):
      super().__init__(name, speed, mileage)
      self.fair = 0
   def getFair(self):
      self.fair = float(input("Enter Fair: "))
```

```
        return self.fair
```

Let’s test it...

Create a Taxi object called route84, pass the name, speed and mileage.

```
route84 = Taxi('Route 84', 66, 2343)
```

Call the getFair() method

```
route84.getFair()
```

Call getName() inherited method

```
route84.getName()
```