Lab Task: 7

Question 1

Answer:

```python
class Vihicle:
    def __init__(self,make , model):
        self.make= make
        self.model = model
    def display_info(self):
        print("Make : {self.make}")
        print("Model : {self.model}")
class Car(Vihicle):
    def __init__(self,make , model , num_doors):
        super().__init__(make, model)
        self.num_doors = num_doors
    def additional_info(self):
        print("Num_Doors : {self.num_doors}")
class LuxuryCar(Car):
    def __init__(self ,make,model, num_doors , features):
        super().__init__(make,model,num_doors)
        self.features = features
    def additional_info(self):
        super().additional_info()
        print("Features : {self.features}")
```

```python
obj1 = LuxuryCar("Honda", "1222",3 , "Auto Doors")

obj1.additional_info()
```

Question 2:

Answer:

```python
class Employee():
        def __init__(self, name , position):
                self.name = name
                 self.position = position
         def display_info(self):
                 print(f" Employee's Name : {self.name}")
                 print(f" Employee's Position : {self.position}")
 class Manager(Employee):
        def __init__(self, name , position , department):
                 super().__init__(name,position)
                self.department = department
         def additional_info(self):
                 print(f" Employee's Department : {self.department}")
class Worker(Employee):
        def __init__(self, name , position , department , hours_worked):
                 super().__init__(name , position )
                self.hours_worked = hours_worked
        def additional_info(self):
```

```python
        print(f" Worker Worked_Hours : {self.hours_worked}")
obj = Manager("Ali", "Mechanical  Manager", "Mechanical Department")


obj.display_info() obj.additional_info()
obj1 = Worker(" Ahsaan ", " Technical Director " , " Electronics " , "12 Hours")
obj1.display_info()
obj1.additional_info()
```