#hybrid

#1.class Vehicle:

def \_\_init\_\_(self,make,model,year):

self.make=make

self.model=model

self.year=year

def get\_display\_info(self):

print(" Make:",self.make,"\n","Model:",self.model,"\n","Year:",self.year)

class Car(Vehicle):

def \_\_init\_\_(self,make,model,year,no\_doors,trunk\_cap):

Vehicle.\_\_init\_\_(self,make,model,year)

self.no\_doors=no\_doors

self.trunk\_cap=trunk\_cap

def display\_info(self):

self.get\_display\_info()

print(" no\_doors:",self.no\_doors,"\n","trunk\_capacity:",self.trunk\_cap)

class Truck(Vehicle):

def \_\_init\_\_(self,make,model,year,cargo\_cap,axies):

Vehicle.\_\_init\_\_(self,make,model,year)

self.cargo\_cap=cargo\_cap

self.axies=axies

def display(self):

self.get\_display\_info()

print(" Cargo\_cap:",self.cargo\_cap,"\n","Axies:",self.axies)

class PickupTruck(Car,Truck):

def \_\_init\_\_(self,make,model,year,no\_doors,trunk\_cap,cargo\_cap,axies):

Car. \_\_init\_\_(self,make,model,year,no\_doors,trunk\_cap)

Truck.\_\_init\_\_(self,make,model,year,cargo\_cap,axies)

def dis(self):

self.display\_info()

self.display()

v=PickupTruck("BMW","M5",2024,5,546,7,89)

v.dis()

#2.hierarchical inheritance

class Product:

def \_\_init\_\_(self,pro\_id,name,price):

self.pro\_id=pro\_id

self.name=name

self.price=price

def get\_display\_info(self):

print(" Product\_id:",self.pro\_id,"\n","Name:",self.name,"\n","Price:",self.price)

class Electronics(Product):

def \_\_init\_\_(self,pro\_id,name,price,warrenty,brand):

Product.\_\_init\_\_(self,pro\_id,name,price)

self.warrenty=warrenty

self.brand=brand

def display\_info(self):

self.get\_display\_info()

print(" warrenty\_period:",self.warrenty,"\n","brand:",self.brand)

class Clothing(Product):

def \_\_init\_\_(self,pro\_id,name,price,size,material):

Product.\_\_init\_\_(self,pro\_id,name,price)

self.size=size

self.material=material

def display(self):

self.get\_display\_info()

print(" size:",self.size,"\n","material:",self.material)

e=Electronics(879,"LAPTOP",50000,2,"LENOVA")

e.display\_info()

c=Clothing(657,"shirt",1000,"M","LYCRA")

c.display()