*# ------------------------------ Multilevel Inheritance ----------------- #  
'''  
Multilevel Inheritance  
In multilevel inheritance, features of the base class and the derived class are further inherited into the new derived class.  
This is similar to a relationship representing a child and grandfather.  
'''***class** GrandFather:  
 football\_champion = 2  
  
  
**class** Father(GrandFather):  
 other\_activities = **'lots'  
  
 def** activities(self):  
 **return f'I am Sherry, My Father activities are {**self.other\_activities**}'  
  
  
class** Son(Father):  
  
 **def** \_\_init\_\_(self, name, age):  
 self.Name = name  
 self.Age = age  
  
 sports = **'Cricket'  
  
 def** activities(self):  
 **return f'My favourite Sports are {**self.sports**}'**Idrees\_khan = GrandFather()  
Saboor\_khan = Father()  
sherry = Son(**'Sheheryar'**, 16)  
  
print(sherry.football\_champion)  
  
**'''  
agar koi method jo Father or GrandFather ma same ha to Son agar osa access kara ga to wo Father wala hi access kar la ga   
q k osa wo method pehla hi mil jai ga  
'''***# ------------------------------ Exercise ---------------------------- #***'''  
Three Classes = Electronic\_device, Pocket\_Gadget, Phone  
MeaningFull Methods and Variables  
'''  
  
  
class** Electronicdevice:  
 sell\_per\_anum = 1000  
 which\_device = **'Mobile Phone'  
  
 def** device\_and\_sell(self):  
 **return f'The main device is {**self.which\_device**}, and the Sell per annum is {**self.sell\_per\_anum**}'  
  
  
class** PocketGadget(Electronicdevice):  
 first\_gadget = **'Charger'** second\_gadget = **'Cable Wire'  
  
 def** gadget(self):  
 **return f'First Gadget to introduce is {**self.first\_gadget**}, Second is {**self.second\_gadget**}'  
  
  
class** Phone(PocketGadget):  
  
 phone = **'Sony'  
  
 def** details(self):  
 **return f'Electronic Device is {**self.which\_device**}, Main Gadget is {**self.second\_gadget**} & Phone is {**self.phone**}.'**device = Electronicdevice  
P\_gadget = PocketGadget  
mobile = Phone