*# -------------------------- Inheritance ------------------- #  
'''  
Inheritance allows us to define a class that inherits all the methods and properties from another class.  
Parent class is the class being inherited from, also called base class.  
Child class is the class that inherits from another class, also called derived class.  
'''  
  
# ----------------------- Inheritance Concept --------------- #***class** School:  
 no\_of\_leaves = 8  
  
 **def** \_\_init\_\_(self, name, standard, faculty):  
 self.Name = name  
 self.Standard = standard  
 self.Faculty = faculty  
  
 **def** printdetails(self):  
 **return f'Name is {**self.Name**}. Standard is {**self.Standard**} and Faculty is {**self.Faculty**}. '** @classmethod  
 **def** change\_leaves(cls, newleaves):  
 cls.no\_of\_leaves = newleaves  
  
 @classmethod  
 **def** from\_dash(cls, string):  
 **return** cls(\*string.split(**'-'**))  
  
 @staticmethod  
 **def** simple\_func(string):  
 **return f'{**string**} This is Simple Function, for this simple func we use @staticmethod'***# ------------------------ Single Inheritance --------------- #***class** Student(School):  
  
 **def** \_\_init\_\_(self, height, faculty, ide, \*languages):  
 self.Height = height  
 self.Faculty = faculty  
 self.Languages = languages  
 self.IDE = ide  
  
 **def** printprog(self):  
 **return f'The Programmer Name is {**self.Name**}. Standard is {**self.Standard**} and Faculty is {**self.Faculty**}. '**SHerry = School(**'Sheheryar'**, 14, **'AI'**)  
Hamza = School(**'Hamza Rehman'**, 11, **'Learner'**)  
  
zulqarnain = Student(5.4, **'Web-developer'**, **'Vs Code'**, **'Html'**, **'Css'**, **'Js'**)  
  
print(zulqarnain.Languages) *# q k ya class inherite kar rahi ha School class sa to ya os k method bhi use karsakti ha*