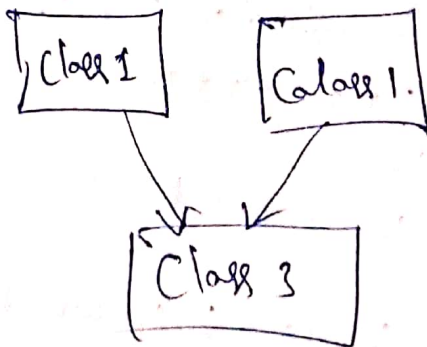


Section - I

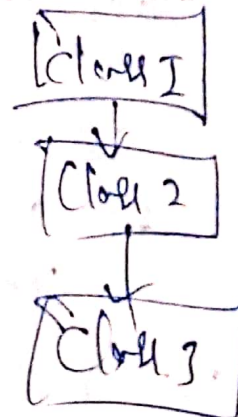
① Python multiple Inheritance

The name says it all - one class extending more than one class is called multiple inheritance. This is one of the cool specialties of python which makes it more convenient than java in some cases (Java doesn't support multiple inheritance). Java doesn't have it because at times multiple inheritance may create some ambiguity. We shall talk about it later in this.

Multiple Inheritance vs multi level inheritance



multiple inheritance



Python Multiple Inheritance Example

definition of the class starts here

class Person :-

defining constructor

def __init__(self, person name, person Age):

self.name = person name

self.age = person Age

def show name (self) :-

print (self.name)

def show Age (self.name)

def show Age (self) :-

print (self.age)

end of class definition

defining another class

class Student :- # Person is the

def __init__(self, Student Id) :-

self.Student Id = Student Id

def get Id (self)

return self.Student Id

class Resident (Person, Student) :- # extends both Person and Student class

def __init__(self, name, age, id):

Person.__init__(self, name, age)

Student.__init__(self, id)

Create an object of the Student subclass

resident 1 = Resident ('John', 30, '102')

resident 1.show name()

print (resident 1.get Id())

The classes Person and Student are superclass here and Resident is the subclass - The class Resident extends both Person and Student to inherit the properties of both classes. The example is easily understandable if you have the slightest knowledge of python class and python inheritance. This code yields the following output

→ ... →