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Aim: Solving a problem using the concept of Inheritance.
Objective: Write a Program to implement the hybrid inheritance in Python.
Program:
       # Creating a Base class named University
       class University:
         def __init__(self):
           print("Constructor of the Base class \n")
           self.univ = "CSVTU"
         def display(self):
           print("The University name is:", self.univ)
       # 1st Derived Class (Single Inhertance)
       class Course(University):
         def __init__(self):
           print("Constructor of the 1st Derived Class")
           University.__init__(self)#Calling Constructor of Parent Class
           self.course = "B.Tech. (H.)"
         def display(self):
           print("The Course name is: ", self.course)
           University.display(self)
                                              #Calling display() of Parent Class
       # 2nd Derived Class (Single Inheritance)
       class Branch(University):
         def __init__(self):
           print("Constructor of the 2<sup>nd</sup> Derived Class")
           self.branch = "CSE (AI & DS)"
         def display(self):
           print("The Branch name is: ",self.branch)
       # 3rd Derived Class (Multiple Inheritance)
       class Student(Course, Branch):
         def __init__(self):
           print("Constructor of 3<sup>rd</sup> class derived from Course and Branch class")
           self.name = "John"
                                      #Calling Constructor of 1<sup>st</sup> derived class
           Branch.__init__(self)
                                     #Calling Constructor of 2<sup>nd</sup> derived class
           Course.__init__(self)
         def display(self):
           print("The Name of the student is:", self.name)
           Branch.display(self) #Calling display() of 1st derived class
           Course.display(self)
                                     #Calling display() of 2<sup>nd</sup> derived class
       ob = Student() # Object named ob of the 3rd derived class Student
                      # Calling the display() of 3<sup>rd</sup> derived class
       ob.display()
Output:
Constructor of 3rd class derived from Course and Branch class
Constructor of the 2nd Derived Class
Constructor of the 1st Derived Class
Constructor of the Base class
The Name of the student is: John
The Branch name is: CSE (AI & DS)
The Course name is: B.Tech. (H.)
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The University name is: CSVTU