# **LAB 5**

MULTIPLE INHERITENCE:

Multiple inheritance is a feature of object oriented programming in which an object or class can inherit characteristics and features from more than one parent object or parent class. It is distinct from single inheritance, where an object or class may only inherit from one particular object or class.

MULTI-LEVEL INHERITENCE:

Multilevel inheritance refers to a mechanism in OO technology where one can inherit from a derived class, thereby making this derived class the base class for the new class. As you can see in below flow diagram C is subclass or child class of B and B is a child class of A. A derived class is created from another derived class is called Multi Level Inheritance.

TASK 2

class AirTravellers:

def Trip(self,name):

self.name=name

print("BOOKED YOUR SEAT FOR",self.name)

class Types\_Of\_Airlines:

def Visits(self,seats,name):

self.seats=seats

self.name=name

print("BOOKED",self.seats,"SEATS FOR THE CURRENT FLIGHT",self.name)

class Enterprises(AirTravellers,Types\_Of\_Airlines):

def Flight(self,whereto):

self.whereto=whereto

print("I WENT TO",self.whereto,"IN BUSINESS CLASS")

obj=Enterprises()

obj.Trip("SAUDIA ARABIA")

obj.Visits(30,"Emirates")

obj.Flight("SAUDIA ARAB")

BOOKED YOUR SEAT FOR SAUDIA ARABIA BOOKED 30 SEATS FOR THE CURRENT FLIGHT Emirates I WENT TO SAUDIA ARAB IN BUSINESS CLASS

TASK 3

class Types\_Of\_Umbrella:

def \_\_init\_\_(self,type,use,size):

self.type=type

self.use=use

self.size=size

def rain(self):

print(self.type,"are safe due to their",self.use,"size umbrella in this",self.size)

class Female\_umbrella(Types\_Of\_Umbrella):

def \_\_init\_\_(self,type,color,print\_1,use,size):

Types\_Of\_Umbrella.\_\_init\_\_(self,type,use,size)

self.color=color

self.print\_1=print\_1

def season(self):

print("These",self.size,self.type,"printed with",self.color,"are used for",self.use,"available for",self.print\_1)

class foldable\_umbrellas(Female\_umbrella,Types\_Of\_Umbrella):

def \_\_init\_\_(self,use,color,print,size,type):

Female\_umbrella.\_\_init\_\_(self,color,print,size,use,type)

def purpose(self):

print("These",self.use,"are used for",self.type)

obj=Types\_Of\_Umbrella("Kids","wide","rainy\_season")

obj.rain()

obj1=Female\_umbrella("Pink\_umbrellas","flowers","snowy\_season","ladies","large-size")

obj1.season()

obj2=foldable\_umbrellas("GREEN UMBRELLAS","SUN PROTECTION","block\_print\_umbrella","large","gents")

obj2.purpose()

Kids are safe due to their wide size umbrella in this rainy\_season These large-size Pink\_umbrellas printed with flowers are used for ladies available for snowy\_season These GREEN UMBRELLAS are used for SUN PROTECTION