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#1)To check given two dates d1 and d2.
import datetime
def date_cal(date1, date2):
    print('Date1:',date1,'\nDate2:',date2)
    if(date1 == date2):
        print('Both dates are same')
    elif(date1>date2):
        print('Date1 is greater than Date2')
    else:
        print('Date1 is less than Date2')

def main():
    d1 = datetime.datetime(2022,11,1)
    d2 = datetime.datetime(2022,12,1)
    date_cal(d1,d2)

if __name__ == "__main__":
    main()


#2)class called Box with attributes length, breadth, depth
class Box:
    def __init__(self, length, breadth, depth):
        self.length = length
        self.breadth  = breadth
        self.depth  = depth

    def volume(self):
        print('Box volume =',self.length*self.breadth*self.depth)

class WeightBox(Box):
    def __init__(self, length, breadth, depth, weight):
        Box.__init__(self, length, breadth, depth)
        self.weight  = weight

    def fweight(self):
        self.weight = (self.length*self.breadth*self.depth)/166
        print('Real weight =',self.weight)

class ColorWeightBox(WeightBox):
    def __init__(self, length, breadth, depth, weight, color):
        WeightBox.__init__(self, length, breadth, depth, weight)
        self.color  = color

    def fcolor(self):
        print('color is',self.color)

b = Box(1,2,3)
b.volume()

wb = WeightBox(3,6,9,4)
wb.fweight()
wb.volume()

cwb = ColorWeightBox(1,2,3,4,'Blue')
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cwb.fcolor()
cwb.fweight()
cwb.volume()