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1.A,B,A1,B1,A2,B2=input("enter the feature values of A,B,A1,B1,A2,B2").split(',')
if ((A==A1) and (B==B1)):
    print(1)
elif ((A==A2 )and (B==B2)):
    print(2)
else:
    print(0)

2.a1,a2,a3,a4=str(input("please enter the difficulty levels of 4
problems")).split()
if (a1 != a2) and (a3!=a4) :
    p1=[a1,a2]
    p2=[a3,a4]
    p=2
    print(p)
elif (a1 != a2) or (a3!=a4) :
    p=1
    print(p)
else :
    p=0
    print(p)

3.import datetime
d1 = input('Enter a date formatted as YYYY-MM-DD: ').split('-')
d2=input('Enter a date formatted as YYYY-MM-DD: ').split('-')
if (d1==d2):
    print("both are equal")
elif ( d1 > d2):
    print("d1 is greater")
else :
    print("d2 is greater")

4.def distance(k1,k2,m1,m2):
    a=m1/1000
    b=m2/1000
    c=str((k1+a)*(k2+b))
    d=c.split('.')
    e=d[1]
    #print(e)
    #print(diff_distances)
    if ( k1 > k2 and m1 > m2):
        print("total difference of distance is ",int((k1+a)-
(k2+b)),"km",int(round(((k1+a)-(k2+b))%1,2)*1000),"m")
    else :
        print("total difference of disatnces is",int((k2+b)-
(k1+a)),"km",int(round(((k2+b)-(k1+a))%1,2)*1000),"m")
    sum=int(k1+a+k2+b)
    sum_m=round((k1+a+k2+b)%1,2)
    mul=int((k1+a)*(k2+b))
    mul_m=round(float(k1+a)*(k2+b)%1,2)
    div=int(k1+a/k2+b)
    div_m=round((k1+a/k2+b)%1,2)
    print("total distance sum is",sum,"km",int(sum_m*1000),"m")
    print("multiply distance  is",mul,"km",int(mul_m*1000),"m")
    print("divide distance  is",div,"km",int(div_m*1000),"m")
distance(4,3,500,200)

5.class Box :
    def __init__(self,length,breath,depth):
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        self.length=length
        self.breath=breath
        self.depth=depth
    def display(self):
        print("Details of the Box Object are:")
        print("Length:",self.length)
        print("Breadth:",self.breath)
        print("Depth:",self.depth)
class weightBox(Box):
    def __init__(self,length,breath,depth,weight):
        Box.__init__(self,length,breath,depth)
        self.weight=weight
    def display(self):
        print("Details of the Box Object are:")
        print("Length:",self.length)
        print("Breadth:",self.breath)
        print("Depth:",self.depth)
        print("weight:",self.weight)
class colorweightBox(weightBox):
    def __init__(self,length,breath,depth,weight,color):
        weightBox.__init__(self,length,breath,depth,weight)
        self.color=color
    def display(self):
        print("Details of the Box Object are:")
        print("Length:",self.length)
        print("Breadth:",self.breath)
        print("Depth:",self.depth)
        print("weight:",self.weight)
        print("color:",self.color)
a=Box(1,2,3)
a.display()
b=weightBox(4,5,6,7)
b.display()
cb = colorweightBox(10,20,30,5,'orange')
cb.display()
```