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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)

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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)

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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")

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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 ",round((k1+a)-(k2+b),2),"km")
    else :
        print("total difference of disatnces is",((k2+b)-(k1+a)))
    print("total distance sum is",(k1+a+k2+b),"km")
    print("multiply distance is",(k1+a)*(k2+b),"km")
    print("divide distance is",round((k1+a/k2+b),2),"km")
distance(4,3,500,200)

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5.class Box :
    def __init__(self, length,breath,depth):
        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)

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        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()
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