Experiment 6: MP model using python

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**CODE:**

#Step 1

x1=[0,0,1,1]

x2=[0,1,0,1]

r1=[]

for i in range(len(x1)):

if(x1[i] and x2[i]== True):

r1.append(1)

else:

r1.append(0)

print(r1)

#Step 2

for i in range(len(x1)):

if(r1[i]==0):

if(x1[i]==0 and x2[i]==0):

print("0<Theta")

elif(x1[i]==0 and x2[i]==1):

print("w2<theta")

elif(x1[i]==1 and x2[i]==0):

print("w1<theta")

elif(r1[i]==1):

print("w1+w2>=Theta")

theta = int(input(" Enter Theta "))

w1 = int(input(" Enter w1 "))

w2 = int(input(" Enter w2 "))

count=0

for i in range(len(x1)):

if(r1[i]==0):

if(x1[i]==0 and x2[i]==0):

if(0<theta):

print("true");count+=1

else:

print("False")

elif(x1[i]==0 and x2[i]==1):

if(w2<theta):

print("true");count+=1

else:

print("False")

elif(x1[i]==1 and x2[i]==0):

if(w1<theta):

print("True");count+=1

else:

print("False")

elif(r1[i]==1):

#x1w1+x2w2>=o

if(w1+w2>=theta):

print("true");count+=1

else:

print("False")

if(count==4):

print("The conditions are satisfied")

**OUTPUT:**

