**AIM:Write a program to implement OR logic functions using numpy neuron.**

**CODE:**

Import numpy as np

x=np.array([[1,1],[1,0],[0,1],[0,0]])

t=np.array([[1],[1],[1],[0]])

w=np.array([[0],[0]])

theta=1

yin=np.zeros(shape=(4,1))

y=np.zeros(shape=(4,1))

yin=np.dot(x,w)

i=0

found=0

while(found==0):

i=0

yin=np.dot(x,w)

print("Y is initiallised",yin)

while(i<4):

if yin[i]>=theta:

y[i]=1

i=i+1

else:

y[i]=0

i=i+1

print("Calculated y",y)

print("Expected Target t",t)

if (y==t).all():

print("MODEL IS TRAINED ")

print("\nOutput : \n",y)

print("\nweights : ",w,"\n")

print("theta : ",theta)

found=1

else:

print("MODEL IS NOT TRAINED")

w=np.zeros(shape=(0,0))

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

for k in range(int(2)):

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

w=np.append(w,w1)**OUTPUT:**  
