ANDNOT using MP Neuron

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In [1]:
        import numpy as np
         x=np.array([[1,1],[1,0],[0,1],[0,0]])
         t=np.array([[0],[1],[0],[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(yin)
          while(i<4):</pre>
             if yin[i]>=theta:
              y[i]=1
               i=i+1
             else:
               y[i]=0
               i=i+1
             #print("y",y)
             #print("t",t)
           if (y==t).all():
             print("MODEL IS TRAINED ")
             print("\nOutput : \n",y)
             print("\nweights : ",w,"\n")
             print("theta : ",theta)
             found=1
             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)
        MODEL IS NOT TRAINED
        Enter New Theta: 1
        Enter Weight : 1
        Enter Weight : -1
        MODEL IS TRAINED
        Output:
         [[0.]
          [1.]
          [0.]
         [0.]]
        weights : [ 1. -1.]
        theta: 1
In [ ]:
```