FAIT-BCS-062-B Rimsha Bilay

In order to find the output of the network it is necessary to calculate weighted sums of hidden nodes 324

V3=W13×1+ W23×2 V4= W14×1+ W24×2

tind output from hidden nodes using activation function & y3 = 6(V3) , 44 = 6(V4)

use output of the hidden nodes y3 & y4
as the input values to the output layer
(nodes 5 & 6)

VS = W3SY3 + W4SY4 Vb = W36Y3 + W46Y4find the output from nodes S & b(also usif  $\phi$ )  $YS = \phi(vs)$   $Yb = \phi(vb)$ 

The output pattren will be (ys) y6)
Perform input pattren

P1: Input Pathen (000)

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N3 =- 2 +0 +3 ×0 = 0 ?
                          73 &= (d(o)=1
     V5= 4X0-1X0=0,
                          yu= (0(0)=1
                         ys= (0(0)=1
     V5= 1X1-1X1=0 9
                          y6= (0(0)=1
      V6 = - (x 1 + 1 x 1 = 0)
   the output of network is (1,1)
12: Input patter (1,0)
                           43= 6(-1)=0
 V3 = -2X1+3X0 = -2 9
                           44=0(4)=1
  V4 = 4x1+(-1)x0=4,
                            45= 6(-D=0
  V5 = [X6+6-DX1 =-1;
  V6 = -1x0 + (x) = 1 , y6 = (0 (1)=1)

The output network is (0,1)
P3; Input Pathren (0,1)
                             9 43 = 6(3)=
         V3 = -2x0+3x1=3
     V4 = 4x0-[x]=-(9 44=6(-1)=0
                            7 45= (0(1)=1
          U5 = 1X1 - 1X0 =1
           V6 = -1 X1+1 X0=-1 3 Y6= (06-1)=0
The output network is (1,0)
24: Input Pathren (151)
  V3 = -2x1+3x1=1 9 43= 6(1)=1
   V4 = 4x1-1x1 = 3? 44= (0(3)=1
   VS= 1X1-1X/207 45=0(0)=1
   V6=-1X1+1X1=0> 40=600)=1
 the output of the network (1)
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