Name: Mayor Pimpude class: DIIAD Roll no : 43 Subject: ML Assignement -2 Implement AND Runchon using perception network By bipolar input & largets w, = w, =0 ; 6=0 ; 0=0 xI 22 t -1 -1 -1 7 Y = 6+ x1001 +x2002 0=0+1+0+1+0=0 Jin >0. g = + (gin) gi =0 yin co t=y + y=0 + #y

(c) (new) = (c) (d) + 46%; 1=1,2 (mew) = 10, (old) + 9,62) 2 0 4 1 1 1 1 1 (o) (new) = w2(01d) + d 6 % = 0 + (1) (1) (1) 1 b (new) = 661d)+d+ 2 0 + 4505 1 w, =1, w221, 621 gin = 1 + WW+ (150) +1 gin =1 >0 try war in tr-1 6 928 ty 00, (now) = 0, (old) + 16%, = 1 + (10 GO GO GO wa 600) = wa 64)+ 4+2

(01=0 m535 8=0

 $x_1 = -1$ $x_2 = 1$ t = -1 $w_1 = 2$ b = 0

Jin = 0 + (+1) (0) + 1 (2) = 2

yin = 2 > 0

since 62-1, 976

6 (naw) = 661d) +d+ = 0+(1) (1) = -1

nau weights are $w_i=1$, $w_1=1$, b=-1 $x_1=-1$, $x_2=-1$, t=-1 + $w_1=1$, $w_2=1$, b=-1

9in = -1 + E12 (12 + E12 (12) = -3

-3<0

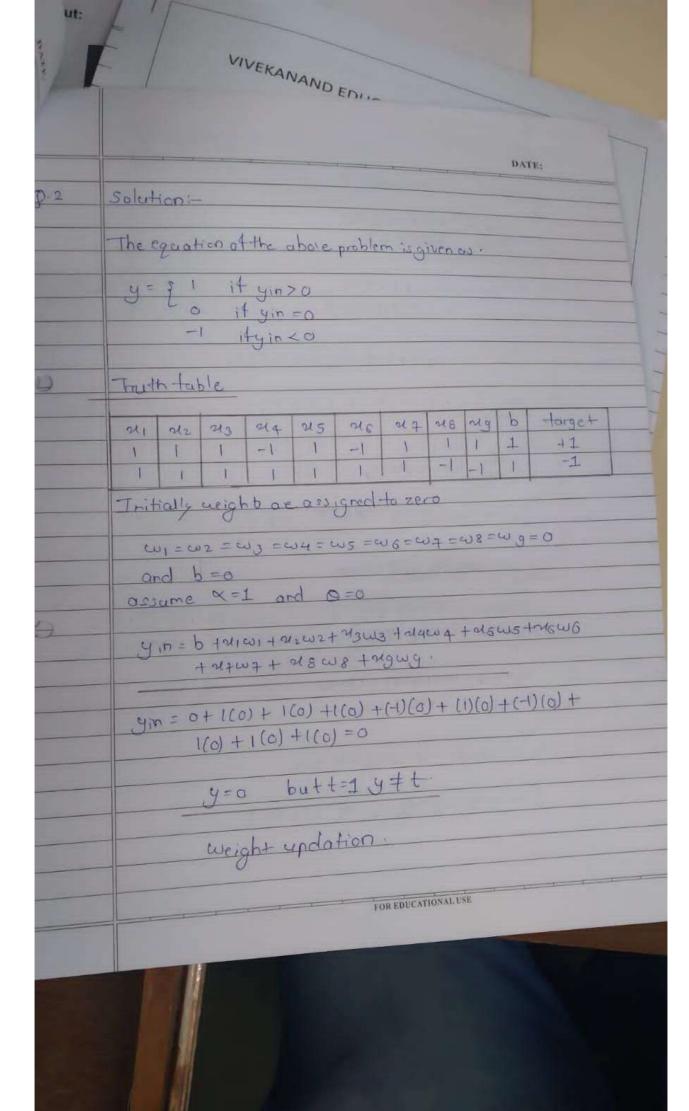
t=-1 4 y=-1 t=y 4

w1=1, w2=1, 6=-1

June.

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weight will houpdated

pulm = chold + xf.

Winew = Wiold + xtry Winew = W2 old + xtry = 0 + (1) (1) (1) = 1 = 0 + 1(1) (1).

· He new updated weight will be

w= {1,1,1,-1,1,-1,11113. < updated weights.

How again

yin= bot will +-- world.

yin=2 y=1 t=-1 y+t

again weight updation.

 $w_{1}new = 1+(1)(1)(1) = 0$ $w_{2}new = 1+(1)(-1)(1) = 0$ $w_{3}new = 1+(1)(-1)(1) = 0$ $w_{4}new = -1+(1)(-1)(1) = -2$

b new = 1+(1)(-1)(-1)=2

. He w updated weight or.

[000-20-20220]

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· based on new neighb

 $y_{in} = 0 + (0)(1) + (0)(1) + 0(1) + (1)(-2) + (0)(1) + (1)(-2)$ + 0(-1) + 2(-1) + 2(-1) + 0(1) = -4

y=4(-4)=-1 y=+ network converget.

.. the no update will done.

. The weights or

W1=0

W2 = 0

ws = 0

w4=0

ws=-2

W6 = 0

w7 = -2

W8 = 0

wg = 2

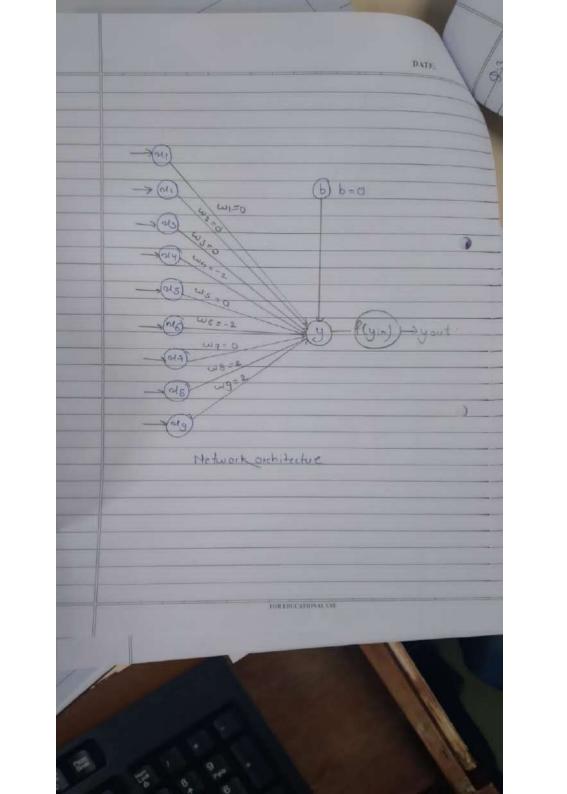
ba = 0 .

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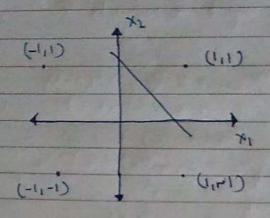
1 it yin>0

yin=0

yinko.



6+2101+226020



Q3.	Implement	AND	tu	MP - neuron	
	×1	×2		4	
	1	1		i	
	1	0		0	
	0	1		0	
	6	0		0	

$$\begin{array}{c} \chi_{1} \rightarrow \begin{array}{c} \chi_{1} \end{array} & \begin{array}{c} \omega_{1} = 1 \\ \end{array} \\ \chi_{L} \rightarrow \begin{array}{c} \chi_{1} \end{array} & \begin{array}{c} \omega_{1} = 1 \\ \end{array} \\ \end{array}$$

Sundaram;

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