ef Implement the AND funchion for sipolar
Input and tooget using the perception
algorithm?

Bipolar 1 & -1, 41 }

AND

<b>-</b>		
	X	1 **
		1
,		1
		-
-1		.1
	_	

Step1: 
$$W_1 = 0$$
  $b = 0$   $d = 0$ 
 $W_2 = 0$   $d = 0$ 

Step2:  $W_1 = W_1 \times_1 + W_2 \times_2 + b$ 
 $W_1 = W_1 \times_1 + W_2 \times_2 + b$ 
 $W_1 = W_1 \times_1 + W_2 \times_2 + b$ 
 $W_1 = W_1 \times_1 + W_2 \times_2 + b$ 

Ī	XI	X2	t	Jin 1	y	$\nabla M^{1}$	DWZ	45	Wı	Wz	5
J1		1	1	Ô	D	1	1	1	1	1	1
		1,	1	1	1	-	1	-	0	2	$\bigcirc$
D		+	1-1		1	1	-1	-4	1	1	-1
Ţ3	-1			12		+					
<u>[</u> 4	-	_		-2			0		1	1	-1

fu II

$$y_{in} = 5 + w_1 x_1 + w_2 x_2$$

$$= 0 + 0 x_1 + 0 x_2$$

$$y = f(y_{in})$$

$$= f(0) = 0$$

y 2 0 0 -1

Jon 70;

yin;

yin;

D

7 in 7 9

cheek target to predicted off

Lenera Leold + X.t.Xij

MALWI

 $\Delta W_1 = \angle \cdot t \cdot x_1$  = 1

DW2 2 d. 6. × 2

= 1 × 1 × 1 = 1

$$\Delta b = \chi \cdot t$$

$$= |\chi| = 1$$

$$W_1^{\text{new}} \geq W_1^{\text{old}} + \Delta W_1$$

$$= 0 + 1$$

$$= 1$$

$$W_2^{\text{old}} + \Delta W_2$$

$$= 0 + 1$$

$$= 1$$

$$W_2^{\text{new}} \geq W_2^{\text{old}} + \Delta W_2$$

$$= 0 + 1$$

$$= 1$$

$$W_2^{\text{new}} \geq W_2^{\text{old}} + \Delta W_2$$

$$= 0 + 1$$

X121, X221, t=-1 W1=1, W2=1, b=1 Jin= X1101+X202+6 = 1×1+-1×1+1 , 21 = 1 y = f(y) = 1if t ≠ 7 (1 ≠ 1) DW1 = d. t. X1 = 1x(-1)x(1) = X. E · X2 = 1×(-1)×(-1)

Eteration L.

Thereion 2

W1 = 1, W2 = 1, 6 = -1

ΧI	X2 \	t	din	8	ΔW		2 4	$\omega_1$	Wz	.   5
١	l	+1	1	1	0				1	<del>                                     </del>
	1	-1	_1	٠	0			J		<u> -)</u>
—1	1	-1	—J	-1	$\bigcirc$		0			<u> </u>
	1	-1		<u> </u>			0	-	] .	— <u> </u>
		-  	-3	_	0	$\bigcirc$	0	1	/   -	- )