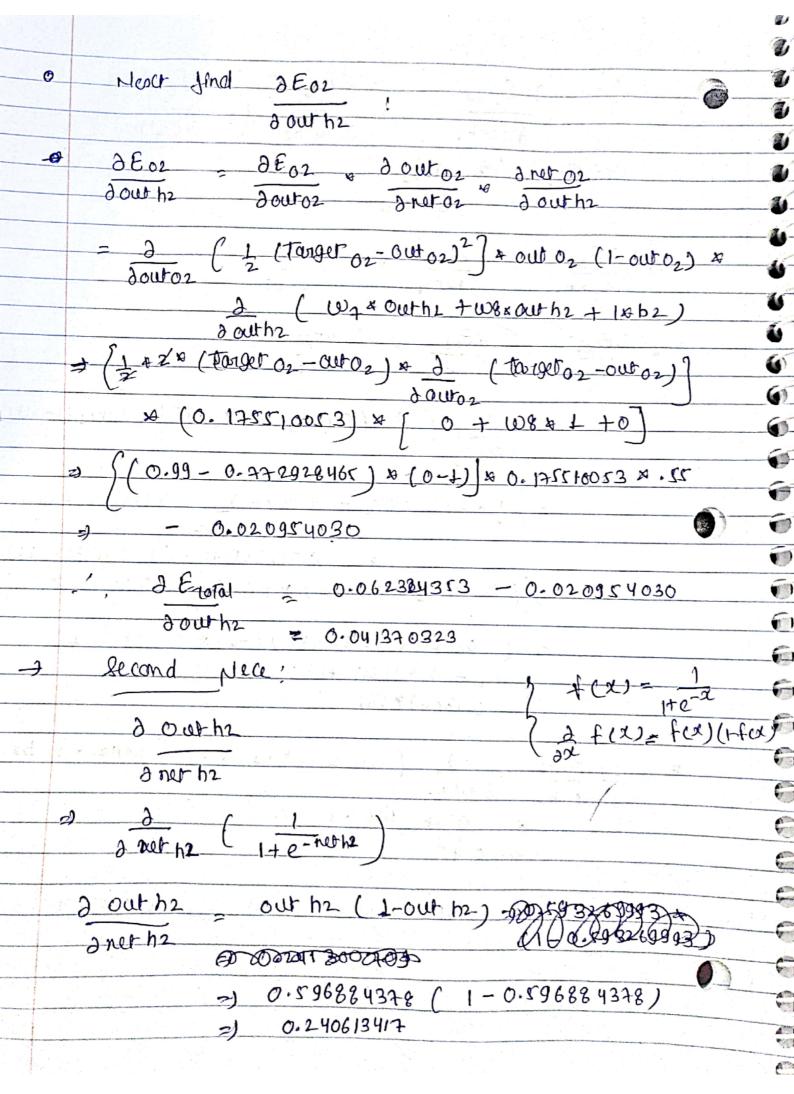


to the output (out 02)! Exoral = 1 (touget a 02 - out 02)2 + 1 (touget 02 - out 02)2 $\frac{1}{2} = 0 + 2 \times 1 (\text{Targer } 02 - \text{out } 02) \times 1 (\text{Target }$ 2 - (target 02 - Out 02) g - (0.99 - 0.77292846C) DE TOTAL = - 0.217071535 @ Se cond, how much does the output of 02 change wir to $\int f(x) = \frac{1}{1+e^{-x}}$ $\int \frac{\partial f(x)}{\partial x} = \frac{1}{1+e^{-x}}$ $\int \frac{\partial f(x)}{\partial x} = \frac{1}{1+e^{-x}}$ $\frac{\partial \omega t o_2}{\partial \omega} = \frac{\partial \omega t o_2}{\partial \omega} (1 - \partial \omega t o_2) = 0.77 2928465 \times (1 - 0.77)$ (1-0.77292846r) 1 0-175510053 last; how much does the Lotal nor input of 02 change 0 10 91. F W7: ner 02 = 107 & out ht + w8 x out h2 + 1 x b2 2 NUT 2 2 (W7 * OWh,) + 2 (W8 * OWh2) + 2 (P2) =) Outh1 * 8 W7 + 0 + 0 = 0 OUT h1 # 1 =) 0.593269993

-)	puttig it all logether.
	2 E 1000
4 10	- 0-217071535 * 0-175510053 × 0-593269993
	$\partial \omega \tau$
	0.022602541
→	Now we update the weight using a.D.
And the second	
	Wrew = Wold - d & DETOTON
	and a word
	wit = wiz - d # DE total 2
	2 050 - 05 × (-0-022602 Γ41)
	102 = 0.141301271
- 1	de la la companya de
	The state of the s
) h	
7	Hi'dden layer, Consider w2.
	Here és what we need to figure our:
nin işi	a E total a Post 10 A most 1
	7 000 17
	a was a set has a way
	How, we need to figure out each piece of egn.
	100 harry Hart Author aller
	We know that out he affects both out of four or then your
	the 2 E Fotal needs to Take into consideration et effect
	dout me
	on the both newrow.

 $\frac{\partial \mathcal{E}_{\text{rotal}}}{\partial owth_2} = \frac{\partial \mathcal{E}_{\text{ot}}}{\partial owth_2} + \frac{\partial \mathcal{E}_{\text{oz}}}{\partial owth_2}$ o Stanting with 2 Eou = 2 (Tanger of - Out of) 2 x Out of (1-out of) 1 x2 (tanget of - out of) × J. (Jarget of - out of) => [Target of - Ont or) + (0-+)] = 0.186817601 = (0-01-0-75136507L) (-1) x 0.18681560L =) (-0.741365071)=(-1) = 0-186815601 0.138498561 and of a fourth to the fourth of the base = 0 + MP #T +0 =) 0.45 DE01 0.138498562 40.45 = 0.062324353 20uth2



Divid piece: 3 met hz = 3 (W3 x el + W4 4 12 + 1 4 b) = îl x 1 + 0 + 0 Putting et all Together: 3 Ejoial = 0.041370323 \$ 0.240613417 \$ 0.05 = 0, 000497713 -) place use update the weight wis using up Wrew = World - X x DE total $w_3^+ = w_3 - \alpha + 3 \underbrace{\text{Etalot}}_{w_3}$ W3 = 0.25 - 0.5 + 0.000497713 (D2+ = 0.25 - 0.000248857) W3+ = 0-249751143 Hence, updated weight; 1 W2+ = 0.511301271 and $w3^{+} = 0.249751143$