AND 100-0 For input 01: For 07 0 - slide Yal) - step (= 2 2 iwi) - 0] = step(-0.1-0.2) | xivi = 0x0.3+1x(-0.1) = step(-0.3) | = 0-0.1= 0.1 = 0 : step(2(0=0)) e(1) = yd-ya=0-0=0 | since, there is no tornlerrer the weight will remain sume. i W, (P+1) = W, (2) = W, (1)+(x x, (P) * e(P)) = 0.3+(0.1*0*0) W2(2) = W2(1) + X * 22(P) * E =-0.1+0.1%0%0 Forp=2: 21=0, x2=1 Exiwi = 0* 0.3 + 1 * (-0.1) = -0.1 => ya = step (-0.1-0.2) = step (-0.3)=0 € (2) = 40-4a = 0-0 =0 | so, weight will not update. $= \psi_1(2+1) = \psi_1(3) = \psi_1(2) + 2 \times \chi_1(p+1) \times e(p+1)$ $= \psi_1(2) + 2 \times \chi_1(2) \times e(2)$ = 03+0.1x0x0=0.3 7 W2(3) = W2(2) + x x2(2) x e(2) = -0.1 + 0.1 *1 *0 /.: [0.3 -0.1] remain uncharged

$$\begin{array}{l} \text{For } P=3, \quad x_1=1, \ x_2=0 \\ & \geq x_1\omega_1 = x_1\omega_1 + x_2\omega_2 = 1 \times 0.3 + 0 \times (-0.1) \\ & = 0.3 + 0 = 0.3 \\ \text{o.} \quad \forall \alpha = \text{step} (5x_1\omega_1) = \text{step} (0.3) = 1 \\ \text{s. Gran/lon} = \forall_3 - \forall_{\alpha} = 0 - 1 = -1 \\ \text{g.} \quad \text{Since, then are force lon, the weight will be uptiled:} \\ \text{$\#$ $\mathbb{L}(3+1) = \mathcal{O}_1(4) = \omega_1(3) + d * x_1(3) * \mathcal{L}(3) = 0.3 + 0.1 \times 1 \times (-4) \\ = 0.3 - 0.1 = 0.2 \\ \text{$\#$ $\mathbb{U}_1(3+1) = \mathcal{O}_2(4) = \omega_2(3) + \alpha * x_2(3) * \mathcal{L}(3) \\ = -0.1 + 0.1 \times 0 \times (-1) \\ = -0.1 \\ \text{$\#$ i o.} \quad \text{$\#$ $\mathbb{L}(4) = \omega_2(3) + \alpha * x_2(3) * \mathcal{L}(3) \\ = -0.1 + 0.1 \times 0 \times (-1) \\ \text{$\#$ $\mathbb{L}(3+1) = \omega_1(4) = (0.2, -0.1) $} \\ \text{$\#$ $\mathbb{L}(3+1) = \omega_1(4) = (0.2, -0.1) $} \\ \text{$\#$ $\mathbb{L}(3+1) = \omega_1(4) = (0.2, -0.1) $} \\ \text{$\#$ $\mathbb{L}(3+1) = \omega_1(4) + x_2(4) = 0.2 - 0.1 $} \\ \text{$\#$ $\mathbb{L}(4+1) = \omega_1(5) = \omega_1(4) + \alpha * x_1(4) \times \mathcal{L}(4) \\ = 0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 + 0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 \times x_1(4) \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 \times x_1(4) \times x_1(4) \times \mathcal{L}(4) \\ = -0.1 \times x_1(4) \times \mathcal{L}(4) \\ \text{$\#$ $= -0.1 \times x_1(4) \times x_1(4) \times x_1(4) \\ = -0.1 \times x_1(4) \times x_1(4) \times x_1(4) \\ \text{$\#$ $= -0.1$$