

$$t_1 = 0.01$$
 $t_2 = 0.99$ 

(for calculating new weight of will, i have marked the chain tude path)

 $h_{1n} = w_{11}x_1 + w_{21}x_2 + w_{31}x_3 + b_1 = 0.377$   $h_{1} \text{ out} = Act ((h_1)_{in}) = 0.593$   $h_{2m} = w_{12}x_1 + w_{32}x_2 + w_{32}x_3 + b_2 = 0.39$   $h_{2m} = Act ((h_2)_{in}) = 0.596$ 

 $E_{100 \text{ N}} = \frac{1}{2} \left[ \left( \text{tanget} - \text{yout} \right)^{2} - \frac{1}{2} \left[ \left( \text{ti-yiout} \right)^{2} + \left( \text{tz-y}_{20\text{N}} \right)^{2} \right] = \frac{1}{2} \left[ \left( 0.1 - 0.751 \right)^{2} + \left( 0.99 - 0.772 \right)^{2} \right]$  = 0.2983

DETOtal DE Total & DYION \* DYION & DYION & DWM = (Your - ti) \* Your (1-your) \* hour = 0.651 \* 0.751 \* 0.249 \* 0.593 = 0.0721 (Whii) new = (Wnii) old - 2 2 E Potal 2 Why 0.40 - 0.5 \* 0.0721 = 0.40 - 0.036 = 0.364 (Wh12) new = DE Total \* DY2in \* DWn12 (WII) new = df Total \* dyion \* dyin \* dhin dhin dhin dhin dhin + DETOTAL & DYZOUT & DYZIN & Dhiont & Dhion & Dhion & Dhion & Dhion & Dhion => (y104 - 4) \* y104 (1-y104) \* (h1) out \* (h1) out \* (h1) out \* 74 + (420m -t2) \* 420m (1- 420m) \* W M2\* (M) out \* (1- h) out \*4 => (hibut (1-hi)out \* 21 (Grout -+1) (Grout (+ Grout) + (y20nt-t2) \* y2 ons (1-y2 ont) WII new = WII OH - 7 PE Similarly adulate for W31, Wg2?