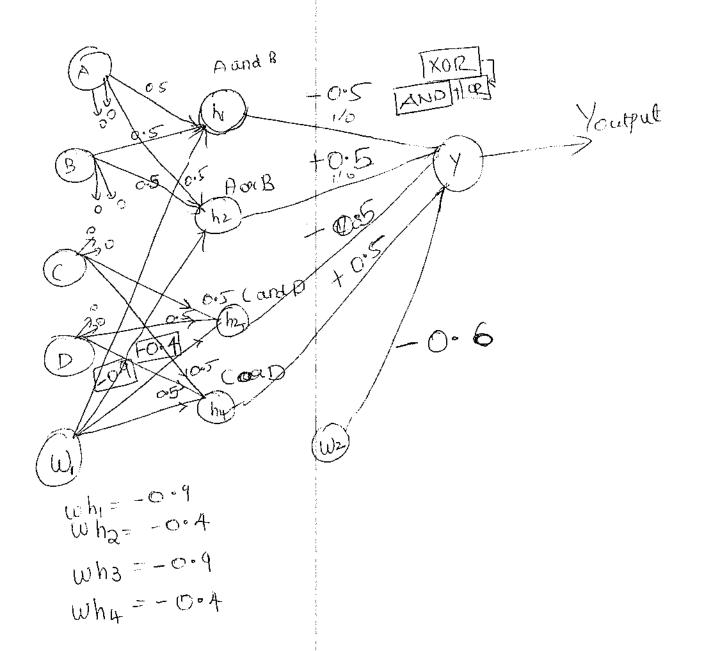
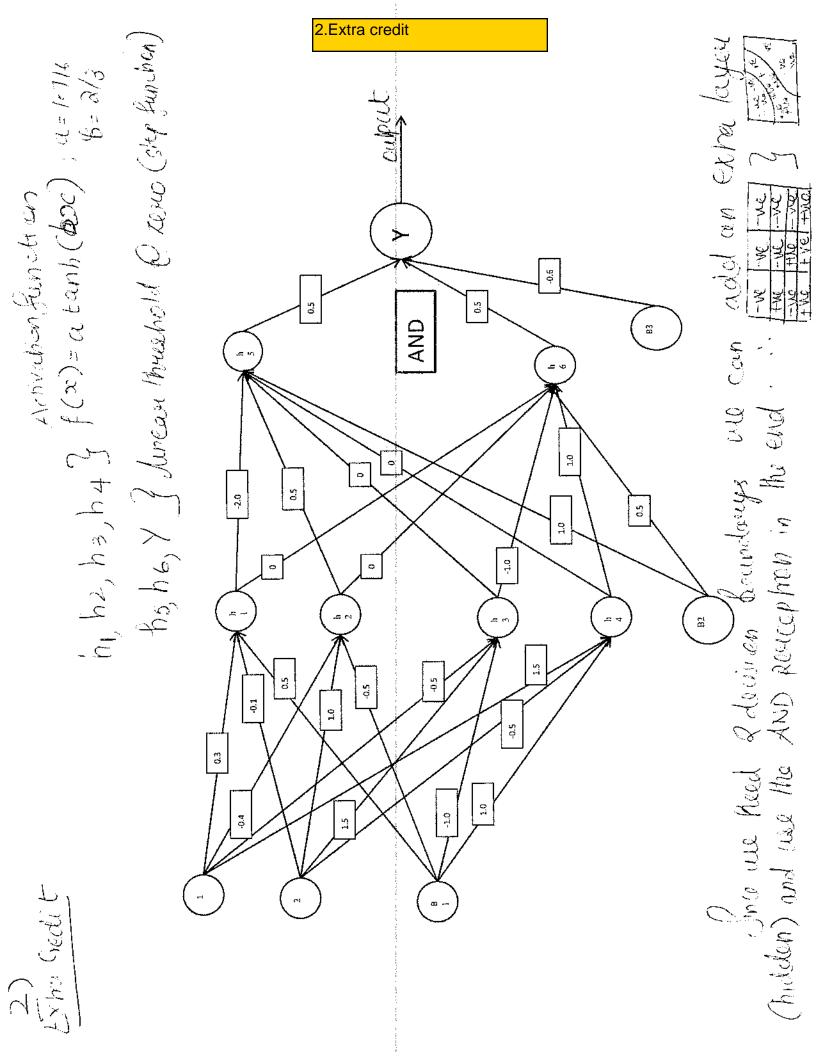
B 0 AANDBANDC hi 00 A ANDA 0.5 0,000 10.5 A AND C -0.9 (BIA13 Birsi ,0000 1011 (010) 1001 1000 O I 0000000 100 00000





a) Proof
$$f(x) = \frac{1}{1+e^{-x}}$$

$$f(x) = \frac{1}{1+e^{-x}}$$

$$= \frac{1}{1+e^{-x}}$$

$$= \frac{1}{1+e^{-x}}$$

$$f(x) = f(x) \times \left[1-f(x)\right]$$

$$= \frac{1}{1+e^{-x}}$$

(b)
$$x_1 = -0.5$$
 $f(x) = \frac{1}{1 + e^{-x}}$
 $f(x) = \frac{1}{1 + e^{-x}}$

Exha Credit For first Propogation ω_1 DW1=-1.2742x10 $\Delta \omega_2 = -5.148 \times 10^{-5}$ DW3= 3.177 X10 $\Delta \omega_4 = 3-3048 \times 10^{-7} 2.9917 \times 10^{-7}$ DUS = -6.3554 x10-7 10-7 10-7 W_1^{25} W_2 ~ 5.199 W_3 ≈ 4 W_4 ~ -3 W_5 ≈ 4 W_6 ≈ 4.6 Now weights Using MATLAB L> Now Output = 6.99452007 (Fmor did not old Output decrease significantly. -0.99451766