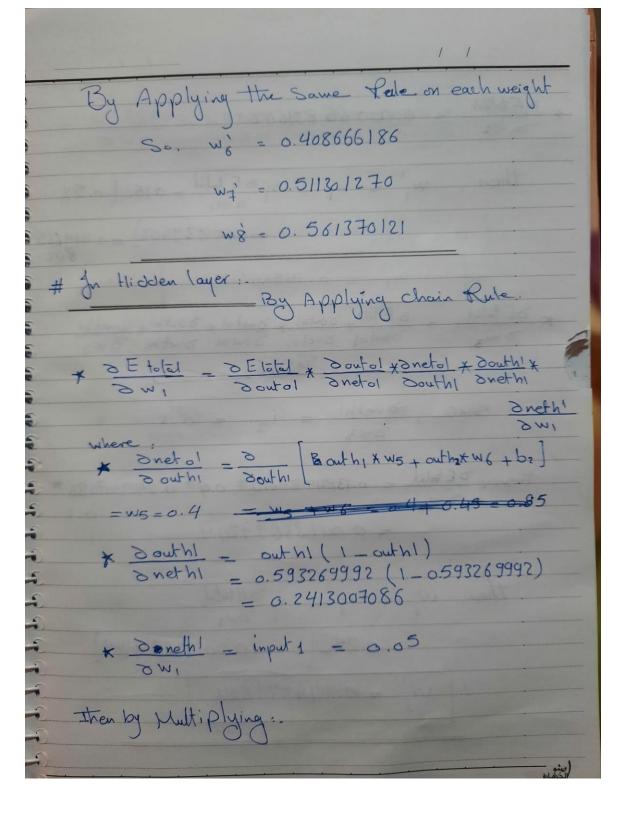


1 1 * the output of 01 * net-01 = w5 * 6 outh + w6 * outh 2 + 12*1 = (0.4 × 0.59326999) + (0.45 × 0.5968845) + 0.6 = 1.105905967 * out-01 = 0.75136507 e-netoi * the output of 02 * retor = w, * outh 1 + wg * outh 2 + be *1 = (0,5 x 0.593269992) + (0.55 x 0.5968843783)+ 1. 224921404 * out = = 0.772928465 * Calculating the error in each 0, 802 * Eat = 1 (Torget - outo) - 1 [a. 01 - 0.75138507] = 0.274811083 =

* Eoz = 1 [0.99 _ 0.772928465]= 0.023560026 + the ToTal Error is the sum of Eq + Eaz Etotal = 0.298371109 B. Backword Pass: *In output layer: - By Applying Chair Rule: DEtotal & Doutol & Onetol

DWS Doutol Dretol DWS * O Etotal = (target of outor) * outor (1 outor) * outre = - (001 - 0.75136507)* 0.75136507(1-0 75136507) * 0.593269992 = 0.082167041 Scholal * Douto1 * Dretor Doutol Svetor DW6 DE total - (0.01_0.75136507) * 0.75136507(1-0.75136507) * 0.5968843783 = 0.0826676278

Doutor Doutor * Smetal DEtatal = (torget - outo2) * outo2(1-outo2) *aut (0.99-0.772928465)* 0.772928465(1_ 0.772928465) * 0.59326999= DEtotal = DEtotal x Doutor x Justor - (target - outor) * outor(1-outor) * outhre (0.217071535)* 0.175510053*0.5968843 0.02274024227 # Assumming that the learning Rate is $\eta = 0.5$ - then by updating weights ws, w6, w7, w8 *W5 = W5 - M* OFtotal = 0.4 - [0.5 * 0.082167641] = 0.35891648 ALADIB



7 SE Lulid = 0.15 [0.5 X]
0.00066839602] = 0.149665
3065802

Director * Douthor Director Double Director Dou * 3 E total = 0.000 66 839602 then, w'= w - n = Etalad = 0.15 - [0.5X w, = 0.149665802 - 3 Elota x Doutol x Dnetol x Douthl x Dnethl Dwethl Dwethl Dwethl Dwethl Dwethl Sina , 2 neth1 = i2 = 0.1 then, DE total - 0.13849 85615* 0.4* 0.24130070.86* = 0.00/33679204 then W3 = W3 - n DEtotal = 0.25_[0.5 X 0.00133679204] $W_{2}^{\prime} = 0.249331604$

DW2 Douter Dreter Douter & Drether & Drethe where. Snetor _ Southa | htwq + hz + wg + b = 0.55 dowth2 = out h2 (1 - out h2) = 0.2406134172 = 0.5968843783(1-0.5968843783) * sneth = input = 0.05 then, DE total _ , 0.0380982366 x 0.55 x 0.2406134172 X0.05 = 0.00025.204103 then, W2 = W2 - y selded = 0.2 _ [0.5 × 0.000 2520 9/03] W2 - 0.1998739545 صنو الحظارة BIUNIA