AND adjuts I when both upods one I, otherwise outputs o 0=02 0.15 when = wold + x (Yd - Y) xi Epoch 2: $w_1 = 0$ $w_2 = 0$ $w_3 = -0.2$ weighted = 0.4 (0) + (-0.2)0 = 0 < 0 /=0 2) (0,1) waighted sum = 0.4(0) + (-0.2)(1) = -0.2 < \theta \text{ } \text no error neights me some 2) (1,0) weighted sum = 0.4(1) + (-0.2)(0) = 0.4 >0 Y=1 w = 0.4 + 0.15 (0-1) 1 = 0.25 $w_0 = -0.2 + 0.17 (0-1)0 = -0.2$ 4) (1,1) $y_{0} = 1$ $w_{1} = 0.25$ $w_{2} = -0.2$ unighted sum = 0.25(1) + (-0.2)1 = 0.05 & B Y=0 error update neights $\omega_1 = 0.25 + 0.15(1-0)(1) = 0.4$ Wa = -0.2 + 0.15 (1-0)(1) = -0.05

whav = wold + & (Yo - Y) xi Epoch 2: W1 = 0.4 W2 = -0.05 1) (0,0) Yp =0 weighted rum = 0.4(0) + (-0.05)0 = 0 < 0 Y=0 2)(0,1) $y_{p}=0$ weighted cum = 0.4(0) + (-0.05)1 = -0.05 < 0 Y = 0 NO EVVO 3) (1,0) Yo = 0 unighted cum = 0.4(1) + (-0.05)0 = 0.4 > 0 /= 1 an orion: updale weights $w_1 = 0.4 + 0.15(0-1)1$ = 0.4 - 0.15 = 0.25 $\omega_2 = -0.05 + 0.15(0-1)(0) = -0.05$ (1, 1) (1, 1) (1, 1)waghled sum = 0.25(1) + (-0.05)1 = 0.2 = 0 Y=1 no error

Epoch 3: $w_1 = 0.25$ $w_2 = -0.05$ 1) (0, 0) Yo = 0 maghled sum = (025)(0) + (-0.05)0 = 0 < 0 /=0 2) (0,1) YO = 0 unighted sum = $0.25(0) + (-0.05)1 = -0.05 \angle \theta$ Y=0e) (1,0) Yo = 0 unighted sum = (0.25)(1) + (-0.05)0 = 025 > 0 Y=1 error > update weights $w_1 = 0.05 + 0.15(0-1)1 = 0.1$ Wa = -0.05 + 0.15(0-1)0 = -0.05 (1,1) (1,1) (1,1)weighted = 0.1(1) + (-005)(1) = 0.05 & B Y=0 error so update weights w) = 0.1 + 0.15 (1-0)(1) = 0.25 wa = -0.05 + 0.15 (1-0)(1) = 0.1

Epoch 4: W1 = 0.25 W2 = 0.1
(1) $(0,0)$ $y_0 = 0$ weighted sum = 0.25(0) + 0.1(0) = 0 $\angle \theta$ $y = 0$ no error
2) $(0,1)$ $\forall p = 0$ weighted = 0.25 (0) + $(0.1)(1) = 0.1 < 0$ $\forall = 0$ no error
3) $(1,0)$ $\forall 0=0$ unaghted sum = $0.25(1) + (0.1)(0) = 0.25 > \Theta$ $\forall = 1$ error so update maights $w_1 = 0.25 + 0.15(0-1)(1)$ $= 0.25 - 0.15 = 0.10$ $w_2 = 0.1 + 0.15(0-1)0 = 0.1$
4) $(1,1)$ $y_0 = 1$ une ghted = $0.1(1)$ + $0.1(1)$ = 0.2 $y=1$ no error

Epoch 5: W1 = 0.1 W2 = 0.1
(0,0) Yo=0 weighted =: 0.1(0) + 0.1(0) = 0 < 0 ro error Y=0
$(0,1)$ $y_0 = 0$ unighted = $0.1(0) + (0.1)(1) = 0.1 < 0$ $y = 0$ no error
$(1,0)$ $y_{0}=0$ weighted = $0.1(1) + (0.1)(0) = 0.1 < 0 $ $y=0$.: no error
$(1,1)$ $y_{D} = 1$ maghted = 0.1(1) + 0.1(1) = 0.2 $y = 1$ no error