

Stops

- 2) 9tu 21
- 3) Sample = 1

4) Execu(E) =
$$\frac{1}{2}$$
 × (3-4-(1x0,2-1))²
= 0.5 × (3.4+0.8)².

$$\frac{\partial E}{\partial w} = -(99 - wx; -c) x_{F}$$

$$= -(3.4 - (1)(0.2) - (-1))(0.2)$$

$$= -(3.4 - 0.2 + 1)(0.2)$$

$$= -0.84$$

5)
$$Amz - M \frac{\partial E}{\partial m} = -(0.1)(-0.84) = 0.084$$

 $AC = -M \frac{\partial E}{\partial C} = -(0.1)(-4.2) = 0.42$

- 6) mem+ Am = 1+0.084 = 1.084 C= (+AC=-1+0.42 = -0.58
- 7) sample = sample +1 = 1+1=)-
- (8) Sample 2 total samples =) True

 next.

 go to step for
- q) y = (1.084)(0.4) 0.58 y = -0.1464 $E = (0.5)(3.8 + 0.1464)^{2} = 7.79$ $\frac{\partial E}{\partial w} = -(y_{1} - w_{1} - c) \times p$ = -(3.8 - (1.084)(0.4) + 0.38)0.4 $= -(3.8 + 0.1464) \times 0.4 = -1.58$ $\frac{\partial E}{\partial c} = -(y_{1} - w_{1} - c) = -3.94$
- 10) $\Delta w^2 M \frac{\partial E}{\partial w} z (0,1)(-1.58) = 0.158$ $\Delta C^2 - M \frac{\partial E}{\partial C} z - (0,1)(-3.94) = 0.394$
- 11) mz m+1m= 1.084+0.158 = 1.242 C= C+1c = -0.58+0.394 = -0.186
- 12) sample 22+1 = 3
 13) sample 7 no of samples
 goto next step

- 14) The enter+1 = 2.
- 15) Pter 2 epoches
 gote step 3
- 16) Sample = 1
- 17) y = (1.242)(0.2) + (-0.186) = 0.0624 $E = \frac{1}{2}(34-0.0624) = 1.6688$ $\frac{\partial E}{\partial w} = -(3.4-0.0624) 0.2 = -0.66752$ $\frac{\partial E}{\partial c} = -3.3376$
 - 18) Dure-M(DE) e-(0.1) (-0.66752) e 0.066752. ALZ-(0.1) (-3.3376) e 0.33376
 - 19) MEMADINE 1-242+0,66752=1.90952. (Z(+ACZ-0.186+0.33376=0.14776
 - 20) Souple = 1+1 = 2.
- 21) Sample 2 no of Samples
- 22) 25 = -(3.8 -(1.90952)(0.4)-(0.14776))(0.4) 2m = -(3.88432)(0.4)=-1.155372 z-(2.888432)(0.4)=-1.155372

95 = -2.888432

mse = 2.556063