let us consider a sample dataset have one input (7) and one olp (4: a) and no. of samples 2 Develop a ser method-

_		1
sample	nia	y _i a_
1	0.2	3.4
2	0.4	3.8
3	0.6	4.2
1	0.8	4.6

Do manual calculations for 2 iterations with 1,2 samples

4>
$$g_m = -(3.4-(1)(0.2)+1)0.2 = -0.64$$

6)
$$Om = \frac{-0.1}{\sqrt{0.07 + 168}} \times -0.84 = 0.31$$

$$\Delta C = \frac{-0.1}{\sqrt{1.7 + 16}} \times -4.2 = 0.31$$

6.
$$\Delta m = \frac{-0.1}{\sqrt{0.28 + 10.8}} \times -1.5 = 0.28$$

$$\Delta C = \frac{-0.1}{\sqrt{0.1 + 10.8}} \times -3.4 = 0.12$$

A minimum day see Bu

4.
$$q_m = -(3.4 - (1.50)(0.2) + 0.47) 0.2 = 0.7$$

 $q_c = -(2.4 - (1.50)(0.2) + 0.47) = -3.5$

5.
$$\epsilon_{m} = (0.9)(0.18)+(0.1)(-0.9)=0.3$$

 $\epsilon_{c} = (0.9)(3.1)+(0.1)(-3.5)=40$

6.
$$\Delta m = \frac{-0.1}{\sqrt{0.3 + 10^8}} \times -0.7 = 0.12$$

$$\Delta C = \frac{-0.1}{\sqrt{4.0 + 10^8}} \times 3.5 = 0.17$$

$$4 \cdot m = m+\Delta m = -l.59.40.12 = -l.41$$

 $c = c+\Delta c = -0.47.40.17 = +0.3$

4.
$$g_m = -(3.5 - (1.71)(0.4) + 0.3) 0.4 = -1.4$$

 $g_c = -(3.5 - (1.71)(0.4) + 0.3) = -3.6$

6.
$$Em = (0.9)(0.3) + 0.1(-1.4)^{4} = 0.46$$

 $Ec = (0.9)(4.0) + (0.1)(3.6)^{4} \times 2-59$

6. 'Om =
$$\frac{-0.1}{\sqrt{0.46 + 10^8}} \times -1.4 = 0.2$$

$$\Delta c = \frac{-0.1}{\sqrt{4.89 + 15.8}} \times -3.6 = 0.16$$

7-
$$M=M+\Delta M = 1.71.40.2 = 1.91$$

 $C = C+\Delta C = -0.37+10.16 = -0.14$

else

goto step +

go to nent step ..

else goto step 3