Manual calculation

Step -1: read [x, v], m=1, C=-1, N=001, P=009 Vm=0, Vc=0, epochs=0, no: of samples=2

step-3: sample:)

8 Y 0.2 3.4

Step- U & gm = - (40- (m+ 20m) x0- (c+20/2) x0

=-(304-(1+(009)x0)x002-(C-1)+0))x002

90= -402

step=5: Vm=8Vm - Ncgm= (029)(0)- (0.1)(-0.84)

. = 0.084

VC = 2/4. - 19c = (0) - (001) (-402) = 0042

step-60 m= m+vm = 1+0.084=1.084

C= C+VC = - 1+0 =42 =-0=5.8

step-7: sample = 1+1=2

step-80 it samples no: of samples 3 3223-talse

5-tep-9: 9m = - (308-(1.084)+(009)x(00084))x004
- (0058+(009)x(0002))x001

gm = - (4 . 29416) +0.4=-1.717664.

90=-4029416

Step-10: Vm=2Vm-129n= (0.9) (0.084)-(0.1/1.0717-664)

= 002473664

Vc= NC-79c= (0.9)(0.42)-(0.1)(-4.29416)

- 0.807416

etep-11 6 m=m+Vm= 1.084 +0.24736=1.83186 C=C+V(= -6.58+0.807416=0.2274116 step-12 : Sample = 2+1=3 step-13: 91 sample> no: of samples= 3>2= touc 90 to next step. step-14: 1-ter= 1+1=2 Step-15: if iter> epachs = 2>2 = folse go to step 3 step-16 & Sample = 1 step-17: 9m= - (4e-(m+8vm)xi -(C+80c))xi =- (304 - (1033136+ (COO) x (0,24736))) x 002 -(0022 416+ (0-9)* 0080 7118) = - (2 = 13511) 9c = - (304 - 10553984 - 00 95409) =00891926 step-18: Vm= 7Vm-19m= (0.9) x0.2473664-(0.1) x (-2.13511) 0. 43614 Step-19% m=m+Vm=1.3316+0.43614=1.76774 . C= C+VC = 0.227416 +0.812867 = 1.043283 Step- 20: sample = sample +1 +1+1=2 Step- 21: it sample on S=) 200 = false step-22: gm=-(yo-(m+1vm)x)-(c+7vc))x; =-[308- (1076774+(009) X0043614)) X004- (10043283 - (0.9) X0.815867) x0.4 1-(3-8- (2.160266)x0-4-1.777633)x00,6

9=-(308-(20160266×004)-107725633] = - 1.1283308 Stop 23° Vm=8Vm-17 2m = (009) x 6043614- (001) x (-00463332) = 0-43 88592 Vc = 2Vc-1/2E = (0.9) × 6-815867- (0.1) A(-1.15-83303) = 6.8501133 Step 20% m= 1076774+00488592= 202065992 C= 1.043283 7 101583308= 2.2016133 step 25: sample= 2+1= 3>2- sample > epochs go to step 26. step 26: inters = 3+1=3=> epochs step 27 Step 27: point (m () =) 2-2065992, 2.2016133 Step 28: Mean squared Gror = (3-4- (2.20659927002)-2.2016133)2 +(3.8-(2.2065 992 x 6.4)-2.266133)2 = (0:57315)+ (0:512293) 1-085443 = 0.54271