## ASSIGNMENT-15 18K41A0505. (1 Do Manual Calculations for 2 iterations with Sample(i) 215 Yi RMS Prop Optimize ! 0.2 3.4 2 6.4 3.8 8 2 Sample M=0.1, epochs=2, m=1, c=-1, Y=0.9, Em = Ec = 0, & = 108 step2 iter=1 sample=1 gm=T (y;-mx;-c)xi, gc=-(y;-mx;c) Step3 9m=-(3.4-(1)(0.2)+1).(0.2)=-0.84 SKP4 gc = -(3.4-(1)(0.2)+1) =-4.2 Em = 8 Em + (1-8)(9 on) 2 No 0 (1000) +1 (1000) steps = (09)(0)+ (1-0.9)(-0.84) $\frac{E_{m} = 0.07}{E_{c} = YE_{c} + (1-Y)(9c)}$ = (0.9)(9) + (1-0.9)(-4.2)

 $\Delta m = -\left(\frac{1}{\sqrt{EmtE}}\right)gm$ 

Ec = 1.764

stepli: Convergence contention 10 18K41A0505 if (iter > epochs) nextstep Step12: m=1.91 2 aiterations, for assumptions of the samples of the contractions of 43.7 - 404.(204.(200+(0.0)(0.0)-3.4)3.5 - = (8.0 + (4.0) (10.4) - 1.8) = - 2.6