Assignment 7 18KMAOU23 1 d us Consider a some dataset have one ? (o (X?) and con output (419) and number of samples 4. Doctop a simple Pray vajeston model using BOND Sample(1) | X,9 | Y,9 | 3.9 | 3.8 | 3.6 | 4.2 | 10.8 d u.b Do manual Calculation for 2 iterations with 1st 2 samples Stall [Ny], m=1, C=-1, N=0-1, epoches=2, 18=2 Step 2: itex=1 Stars; DE = -1 2 (A!-WX;-C)X; =-1734-(1)(0.2)+1)0.2+(3.8-(1)(0.4)+1)0.4]  $\frac{\partial E}{\partial t} = \frac{1}{2} \left[ (3.4 - 0.2 + 1) + (3-4 - 0.4 + 1) \right] = -4.3$ Story: Du=-19E = (0.1) (-1.34) = 0.134 DC = - U 3E = (-0.1) (-4.3) = 0A3 Stars: w=m+Dm = 140.BY = 1-13Y C=C+DC =-1+0.43=-0.57

Stop 6 2 itel = itel+1 -141=2 Step 7: if (iters apoches) goto step 3 else step 83: 3m = = = [(343-(1-134)(0.2)+0.57) 0.2+ (3.8-(1-134)(0.4)+0.57)(0.4) 3c = -1 [(34)-(1.134)(0.2)+0.57)+ (38-(1.134)(0.4)+0.57)] = -3.829 step 4! Dm = (0.1) (1.137) = 0.1157 DC = (-0.1) (-3.82) = 0.3829 Ster 5: m=m+Dm = 1.124 + 0.415) = 1.249) C = C+DC = -0.37+0.3829 = -01871 stars: itex=itex+1 =2+1=3 Stens! If ('iter separter) goto ster 8 place Step 3 PUR - Perul Ster 8: m= 1.2499 C=-0.187