1 sundara Assignment 15 18 KUNDOSHY Develop a sample lanear regression mosel using prayprop openisae by using given doctaset. & Do namal calculations 0.2 3.4 Yor \$200 aterations willy 0.4 3.8 D. 6 H-2 jet two samples 0.8 N.6 H Evas Brob , step-14 [n,y], epochus=2, M=1, L=+, Em= EL=0, N=0.0001, N=0.9, R=10-8 8tep-21 Pter=1. Step 3 = Sample=1 Step-uv gm = - (y?-mons-c) 21? = -(3.4-(1)(0.2)+1)(0.4) 9c=-(y?-mon?-v)=(-3.4-(1)(0-4)+1) Em= YEm+ (1-V)(gm) + (0.9)(0)+(-0.9) = 0.705611 Ec = 8Ec+(1-8) (903=(0-9) (0) 40.0 (40) = 1.764.

VEMTE gm = - 6.0001 (-0.84) 0.00031623. VECTE GC = -0.0001 (-4.2) 11.764+10-8 0.00631623. m= m+ Dm = 1.0031623 C= C+OC= -0.99968377 step-87 sample = 1+1=2. seep-av PF (sample > ns) No else goto steph. Step-ur gm=-(y9-mx8-()x9=(3.8-(1.00031628) (O.h) + 0.9996837+) (O.u) = -1.75982291 gc = - (yq-macq-c) 2-(3.8-(1.00031623)(0.4)+6.999685 = - H.39955728. Step-52 Em= VEm+ (1-1) (gm)2 = (0.9) (0.7056) + (0.1) (-1.7589)2 = 6.37J20167

= (0.9) (1.764)+(0.1)(-4.399)2 = 3.5232104. Step-6 V DM = -7 gm = = 0.0001 (TEMHE) gm = (-1.7598) ≤ 0.00028807 DC = -9 $\sqrt{EmHE} \quad gC = -0.0001 \quad (-4.399)$ = 0.00023u39. Step-++ m=m+Dm=1.00031623+0.00028804. = 1.00060U. = C+DC==0.9996837++6.00023439. = -0.99944938 Step-81 Semple = 2+1=3. step-ar of (sample > ns) 9000 stepio. Step-100 Ptq=1+1=2. Step-11 98 (Pter repoels) no else goto steps.

Ec = VEL+(1-V)(gc)

step 3 " Sample =1 step-ur gm = - (yq-mmg-c) x1 = - (3.8 - (1.00060U3)(D.U)+0.999U4) -0.8398657 gc = - (y?-more-c). = - (3.8 - (1.0006043)(0.4) + 0.99944) - h.19932852. 8tep-1 Em = 8Em + (1-8)(gm)2. = (0.9)(0.3+3)+(0.1)(+0.8398)2 = 0.406H189 EC = VEC+(1-7)(gc). =(0.9) (3.5232) +(0.1) (-H.1993)2 = H.93432539 DM = - 0.0001 (-0.839) TEM +E JO. MOGUI + 108 = 0.00013714 DC = - 1 - 9c = - 0.0001 (-4.1993)

0.00018905

Step +1 m = m+Dm = 1.0006043+0.00013714 £ 1.00073604 C=C+DC=-0-999449+0.00018905 = -0.99926034. 8ample=1+1=2 9F (Sample 7ns) NO else goto stepn gm = - (y?-ma?-c)2? Stepu =-(3.8-(1.00073604)(0.4)+0.99926 = -1.75958637 ge = - (y?-mone-c) = - (3.8 - (1.60073604) (0.4)+ 0.99926034) = -4.39896592 Em = YEm + (1-2) (gm)2 = (0.9) (0.4064) +(0.1) (-1.7595)2 = 0.64539144.

EC = 7Ec + (1-8) (gest = (0.9) (H.9343)+ (0.1) (-H.3989) 56.37598297 = 0.0002144 DC = -n GC = -0.0001 (-4.3989) (TECHE 114.87598+10-8 16.87598+10-8 = 0.00017421 Step-+ " m = m+ Dm = 1.00073604+ 0.60021411 = 1.00095045 C = C+ DC = -6.99926034+6.00017421 = -0.99908612 Sample = 2+1=3 Step-8 V step-91 of (sample me) yes or goto step10. Hep-10 r ater = 2+1=3 Step-11 v 90 (9+ a 7 epochs) goto neut step point (mpl) m = 1.00095015 C = +0.99908612