-0)

Assignment 9: momenton Gradient Descent mancal adaptation Step 1: Read (x, y), m=1 x=-1, n=001, 2=019, epods=1, Nm=0, Vc=0 step & : iter=1 Step 3: sample=1 Step 4: x = & (30-mx9-0) 3E = - (304-(1) (0.2+1) (0.2) - (402) (0.2) = -0.84 JE = - (402) = -402 step 524m= 2 4m= 436= (009)(0)-(001)(0084) = 00084 VC= (0.9)(0)- (0.1)(u.2)- D.42 step 6 % m= 140.084= 1.084/ (=-1+0402-0-)2 stop 7 8 sample = 1+1=2 step 8: it sample > ns = asiz -> false go to stop y step 9: 3E = - (3.8- (1-08Ux004) +0058) x084 = 1057856

Step 10: Nw = (0:0) (0:050) - (0:0) (1.27828) 0:08552 VC=(0.9) (0.42) - (0.1) (-309464) = 0077267 step 11: m=1.084 +0.08552= 1.16659 C=-0058 + 0077264=0019264 step 12; sample = 2+123 stop 131 if sample>ns=3>2=three go to step 14 step (4: 1-tex = 1+1=2 step is: if iters epoch = 12= fells e go to step 3 step 3: sample=) step a: E= to (y-mx-c) 3E = -(304-(106821X002)-0-19264)x0-2 = - (2097411) 1002=-0059482 36 =- 20974 1 Step 5: Vm = (009) x (008225)-(001) x (0059 482) 20183500 VC=0=992787 step 6; m= 1-6625+60133507=10299757 C= 1-85427 Step 7: sample 2171=2 Step 8: if simple >15= 2>2=follow To to step y Step4 ; 26 = 0 = 8376 DE 2-20 CAU67 Step5: Vm=(0-01)(0-13350)-(00)(0-23786)=0020394 4C= (0.0)(00992785)~(00)(-2:09467)=1010292 3-tepe: m=10503697 C=288377 Stop 7: 1-tex = 3+1-3 step 8: if iter > epods= 3-2 = fol SP

step 9! point (mx)
1-503677, 2-2.88372
Step 10: mse= (2-5891364)+ (2.88787)

= 50449.6122 m se= 2.737506/