Assignment -6 19kulAoule Polynomial Regressim Model: 7.6 157 7.1 174 Stepl: Read datast in=01 epoch=1, m=1, m=1, c=1 Steps: Sample i=1 Step 4: 4 = m2 (xi) 7+ mixi+c 4p=()(76)2+(1)(76)-1-64.36 Step 5: €=1/91-4:P)2 =1 (157-64.36)2 E = 4291.08 Step 6 = DE = [41 - m2x12 - m1x1 - c]x; = -[157-(1)(7.6)2-(1)(7.6)+1/(7.6) 2 -704.06 2E = [yi-m2xi-miai-)n12 = [157-(1)(7.6) - (1)(7.6) +7[7.6] 2m = -5350-88 3E = - [41-m2x12-m1x1-c] 25 = -[157-(1)(7.6)2-(1)(7.6)+]

Step 7: Am, =- not =- (0.1) (-704.00)=10.9 Am2 = -10 = -(0.1)(-5350.88)= 535.08 D(=-10F = - (01) (-92-64) = 9.26 Step 8: m1 = m1+pm1 = 1+70:4 = 71.4 m2=m2+Dm2=1+535.08.=536.08 C= C+DC = - 1+926=8.26 Step 9: Vample = i=i+1=1+1=2 & i = 257 - Step 9 step4 yp = m2(xi)+m1 xi +c = (536.08) (7.1)2+(71.4)(7.0)+8.26 = 27023-79#+506.94+8.26 yp = 27538.99 Step 5: E= = (41-419)2= = (17 4-27538.99)2 E = 37442 1338.9 Step 6 : DE = - [yi - m2xi2 - m12i -]7; - - [174-(536.08)(7.1)2-(71.4)(7.1)-8.26)(7.1) = - (174-27023.79-506.94-8.26)(7.1) - (-273 lay .99) (7.1) 2E = 194291-429 aE = - [yi = m_2 xi2 - m_1 x1 -] 12; - (-27364.99) (7.1)2

Dm, = 1379469.14 2E = - [yi-m_xi2-mixi-c] =-(-17264.99) DE = 27164.99) Step 7: Dm, =- (0.) (194291.429)=-1942914 DM2 = - 100 - - (0.) (1379469.14) = -117946.9) DC = - MOE = - (0.D) (27264.99) =-2726.49 Step 8 = m1=m1+pm1=71.4-19429.14=-19357.74 m2 = m2 + DM2 = 536.08 - 137946.91 = -137410.83 C=C+DC=8.26=-2736.49=-2728.23 Step 9: Sample i=i+1=2+1=3 bj < ns for nentstep step 10: iter=iter+1=1+1=2, iter>epochy T -, nent step11: End step