Assignment - 15

Let us Consider a sample dataset have one 910 (499) and one orthout (4:9) and number of Samples 4. Develop a sample 19near respectsion model using RMS Poor admitser.

Do manual Calculations for 2 iterations with 1st 2 Samples

Sep1:
$$[x,y]$$
, $n=0.1$, cpoches=2, $m=1$, $n=1$,

Step 2! itel=1

Star 3: Sample -1

Stap u!
$$g_{m=-(3\cdot u-(1)(02)+1)(0\cdot 2)=-0.84$$

 $g_{c}=-(3\cdot u+(1)(0\cdot 2)+1)=-u\cdot 2$

Step 5'.

$$E_{rn} = (0.9)(0) + (1-0.9)(-0.8u)^2 = 0.07$$
 $E_{c} = (0.9)(0) + (1-0.9)(-u.2)^2 = 1.764$

Stap 6:

$$\Delta m = \frac{-0!}{\sqrt{0.60 + 10^8}} *0.8u = 0.3!$$

$$\Delta l = \frac{-0!}{\sqrt{1.06u + 10^8}} *u.2 = 0.3!$$

$$Stap 2: m = m + l m = 1 + 0.3! = 1.3!$$

$$c = c_L D c = -1 + 0.3! = -0.69$$

$$Stap 8: Sample = Cample + 1$$

$$= u + 1 = 2$$

$$Stap 9: if (Sample = ns) goto Stap 10$$

$$2 > 2$$

$$else goto Stap u$$

$$2 = (38 - (1.31)(0.4) + 0.69) 0.4 = -1.5$$

$$3 = -(38 - (1.31)(0.4) + 0.69) = -39$$

$$5 = (0.91(1.36) + (0.1)[-1.5]^2 = 0.28$$

$$E c = (0.91(1.36) + (0.1)[-3.4]^2 = 3.$$

$$Stap 6:$$

$$D = -0.1 \qquad n = -0.5 = 0.28$$

$$\Delta c = -0.1 \qquad n = 3.9 = 0.22$$

Stens !

$$C = C + DC = -0.69 + 0.22 = -0.43$$

Olse

stap 4

Step 4:
$$9m = -(3.4 - (1.59)(0.2) + 0.42)(0.2) = -0.7$$

 $9c = -(3.4 - (1.59)(0.2) + 0.42) = -3.5$

Sheps:
$$E_m = (0.9)(0.28) + (0.1)(-0.2)^2 = 0.3$$

 $E_c = (0.9)(3.1) + (0.1)(-3.5)^2 = 0.0$

Step 6:
$$pm = \frac{-0.1}{\sqrt{0.3+10^{-8}}} * -0.7 = 0.12$$

$$\Delta c = \frac{-0.1}{\sqrt{0.0 + 10^{-8}}} \times -8.5 = 0.12$$

Step :
$$m = m + Dm = 1.59 + 0.12 = 1.21$$

 $C = C + DC = -0.42 + 0.12 = -0.3$

Stepu: 9m = - (3.8 - (1.71) (0.4) +0.3) * 0.0 = -1.4 9c = -(3.8 - (1.71)(0-4) + 0.3) = -3.6Step 5 : Em = (0.9) (0.3) +(0.1) (-1.4) = 0.46 Ec = (0.9) (4.0) + (0.0) (-36) = 4.89 Step 6: $\Delta m = -0.1$ $\times 1.4 = 0.2$ 10-46+10-8 DC = -0-1 x-3-6 = 0-16 JU-89 HD-8 Ster?: m=m+2m = 1-21+0-2 = 1-91 C=C+DC = -03+0.16 = -0-14 step8: Sample = Sample+1 = 2+1=3 step 9: if (Sample >13) gato step 10 Obse golo Sten 4 Ster 10 : Her=iter+1 = 2+1=3 Step 11: if (iter sepoches) gots step 12 3>2 else 9012 37603 Step 12: m=1-91 C=-0114