$$\frac{\partial E}{\partial m} = -\frac{1}{2} (1.4)$$

$$\frac{\partial E}{\partial m} = -0.7$$

$$\frac{\partial E}{\partial c} = \frac{-1}{2} \frac{b^{2}}{bs} (y_{1} - mx_{1} - c)$$

$$\frac{-1}{2} \left[(3.4 - (1)(0.2) - 1) + (3.8 - 1.0(0.4) - 0) \right]$$

$$= -\frac{1}{2} \left[2.2 + 2.4 \right]$$

$$\frac{\partial E}{\partial c} = +2.3$$

$$\frac{-0.1}{2} \left[-0.7 \right] = -(0.1)(-2.3)$$

$$\frac{\partial C}{\partial m} = 0.07$$

$$\frac{\partial C}{\partial m} = 0.07$$

$$\frac{\partial C}{\partial m} = 0.023$$

$$\frac{\partial$$

Step11:- if (iter > epochs)

$$2 > 2 \times x$$

True; go to next step

false; go to step 4.

step4:- batch=1

step5:- $dE = -\frac{1}{165} = \frac{1}{165} = \frac{1}{1$

C= C+OC = 01:23 + 0:2049 107+0.0629 c = 1.4349 m =1.1324 step8? - batch = batch +1 step? - if (batch >nb) False: goto next step. False: goto steps. step 10; iter = iter+1 stepni- if (iter > epochs) True: gotomext step ~ false: gotostep 4. step 12:- print m and c values m=1.1324, c=1.4349.