## Achignment-52

- 1) [m, y], m=1, c=-1, n=0.1, epochs=2, bs=2, ns=4
- 2) nb=ns = 4=2.
- 3) 1t=1
- 4) batche 1

$$6.2 | 3.9|$$
 $0.4 | 3.8|$ 
 $0.4 | 3.8|$ 
 $0.6 | 4.2|$ 
 $0.8 | 4.6|$ 
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$$= -\frac{1}{2} \left[ (3.4 - 1(0.2) + 1)0.2 + (3.8 - 1(0.4) + 1)0.4 \right]$$

$$\frac{\partial E}{\partial c} = -\frac{1}{2} \left[ (3.4 - 1(0.2) + 1) + (3.8 - 1(0.4) + 1) \right]$$

6) 
$$\Delta m = -1 \frac{\partial \mathcal{E}}{\partial m} = -(0.1)(-1.3) = 0.13$$
  
 $\Delta c = -1 \frac{\partial \mathcal{E}}{\partial c} = -(0.1)(-4.1) = 0.43$ 

4) 
$$M = m + \alpha m = 1 + 0.13 = 1.13$$
  
 $C = C + \alpha C = -1 + 0.43 = -0.57$ 

8) batch = batcht1 = 
$$|+1| = 2$$

9)  $\frac{1}{1}(2 \times 2) \times 1$ 
 $\frac{1}{2} = -\frac{1}{2} \left[ (4.2 - 1.13(0.6) + 0.5 + 0.6 + 0.6) + 0.6 +$ 

10) 
$$11 = 111 = 111 = 2$$

11)  $\frac{1}{1}(2 > 1)^{3}$ 
 $\frac{1}{1} > \frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1}$ 

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12)  $\frac{1}{1} = \frac{1}{1} =$ 

5) = 
$$\frac{\partial E}{\partial m} = -\frac{1}{2} \left[ (4.2 - 1.623 (0.6) = 0.14) (0.6) \right]$$

$$= -\frac{1}{2} \left[ \frac{1}{3.106 \times 0.64} \times \frac{3.201 \times 0.64}{3.201 \times 0.64} \right]$$

$$= -\frac{1}{2} \left[ \frac{1.863 + 2.560 \times 0.64}{3.201 \times 0.64} \right]$$

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$$= -\frac{1}{2} \left[ \frac{1.863 +$$