## Assignment-7 Batch Gradent Descent

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

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

8) 
$$\frac{\partial E}{\partial m} = -\frac{1}{N_s} \left[ \frac{8^s}{8^s} (\frac{1}{3} + \frac{1}{3} +$$

9) 
$$\Delta m = -4 \frac{\partial E}{\partial m} = -(0.1) \times (-2.4333) = 0.24333$$
  
 $\Delta C = -4 \frac{\partial E}{\partial C} = -(0.1) \times (-3.831) = 0.3831$ 

14) where  $= (+3.4 - (1.37333 \times 0.2) + 0.1869)^2 + (3.8 - (1.37333 \times 0.4) + 0.1869)^2$ 

= 10.97089+11.81687

use = 11.39388