Assignment -5(A)

Iteration -1

$$\frac{\partial E}{\partial m} = -\frac{1}{2} \left[((y_{a_1} - m_{N_1} - c) * N_1) + ((y_{a_2} - m_{N_3} - c) * N_2) + ((y_{a_3} - m_{N_3} - c) * N_3) \right]$$

n	Y
75.1 74.3 88.7	577.8 577 5709

$$= -\frac{1}{2} \left[\left((677.8 - (1)(75.1) + 1) + 75.1 \right) + \left((577 - (1)(74.3) + 1) + 74.3 \right) + \left((570.9 - (1)(88.7) + 1) + 88.7 \right) \right]$$

$$\frac{\partial E}{\partial c} = -\frac{1}{2} \left[(y_{a_1} - m_{u_1} - c) + (y_{a_2} - m_{u_2} - c) + (y_{a_3} - m_{u_3} - c) \right]$$

$$= -\frac{1}{2} \left[503.7 + 503.7 + 483.2 \right]$$

$$\Delta m = -\eta \cdot \frac{\delta E}{\delta m} = -(0.1)(-69656.31)$$

$$= 5905.631$$

$$\Delta C = -\eta \frac{\partial E}{\partial C} = -(0.1)(-745.3)$$

= 74.53

$$V0 = 1 + 5905.631 = 5966.631$$

$$C = -1 + 74.53 = 73.53$$

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Iteration 2
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$$\frac{\partial E}{\partial m} = -\frac{1}{9} \left[((5777.8 - (5906.63))(78.1) - 73.53) \times 76.1) \right]$$

$$+ ((577 - (6906.63))(74.3) - 73.53) \times 74.3) + ((570.9 - (6906.63))(74.3) - 73.63) \times 88.7) \right]$$

$$= -\frac{1}{9} \left[-112973086.835 \right]$$

$$= 50136549.928$$

$$\frac{\partial E}{\partial C} = -\frac{1}{9} \left[(577.8 - (6906.63))(76.1) - 73.53) + (570.9 - (6906.63))(74.3) - 73.53) + (570.9 - (6906.63))(74.3) - 73.53) + (570.9 - (6906.63))(74.3) - 73.53) \right]$$

$$= -\frac{1}{9} \left[-1404863.731 \right]$$

$$= 702431.865$$

$$\Delta m = -(6.1)(56136549.928) = -5613654.293$$

$$\Delta C = -(0.1)(702431.865) = -76243.187$$

$$m = 5906.63(1 + (-6613654.993))$$

$$= -5607747.669$$

$$C = 73.53 - 70243.187$$

$$= -70169.657$$

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