## Assignment-5

$$\frac{849-2}{3m}|_{m=1} = \frac{1}{2}(y_{1}^{9} - m\alpha_{1}^{9} - c)(\alpha_{1}^{9})$$

$$= \frac{1}{2}[(574.8) - (1)(75.1) + (574 - (1)(74.3) + (574.3) + (570.9 - (1)(88.7) + 1)(88.7)]$$

- -59056.3]

Step-3: Dm = 
$$-N. \frac{\partial E}{\partial m} = -(0.01)(-59056.31) = 590.5631$$
  

$$\Delta C = -N. \frac{\partial E}{\partial c} = -(0.01)(-745.3) = 7.453$$