step1: - [x,y], m=1, c=-1, n=0.1, epochs=2, ns=2 stepal- itr=1

step3:
$$\frac{\partial E}{\partial m} = -\frac{1}{Ns} \frac{ns}{i=1} (y_i - mx_i - c) x_i$$

$$\frac{\partial \dot{E}}{\partial c} = -\frac{1}{n_s} \sum_{i=1}^{n_s} (y_i - m_{x_i} - c)$$

 $\Delta m = -\eta \cdot \frac{\partial E}{\partial m} = (-0.1)(-1.3u) = 0.13u$ $\Delta C = -\eta \cdot \frac{\partial E}{\partial c} = (-0.1)(-u.3) = 0.u3$

Steps: m= m+ Dm = 1+0.134 = 1.734 C=C+DC=-1+0.43=-0.57

 $\frac{\text{Step 3'} - \frac{\partial E}{\partial m} = -\frac{1}{2} \left[(3.4 - (1.13)(0.2) + 0.57) + 0.57 \right]}{0.2 + (3.8 - (1.13)(0.4) + 0.57)}$

E) -1:157

 $\frac{\partial E}{\partial c} = -\frac{1}{2} \left[(3.4 - (1.13)(0.2) + 0.57) + (3.8 - (1.13)(0.4) + 0.57) \right]$

3E 2-3.82

stepu: $\Delta m = (-0.1)(-1.15) = 0.115$ $\Delta c = (-0.1)(-3.82) = 0.382$

Stops: m= m+ Dm =) 1.134+0.115 = 1.249 C= C+ DC =) -0.57 + 0.38=-0.187

step7: (f(itr>epochs)
3>2
True

Step87 Print m4c m=1.249; c=-0.187