dissignment to describe a sample dataset have one ilp and one olp and no of samples a develop a sample linear regulation model by using BGD.

Manual Calculations for a identions with 1st 2 samples:

3. 
$$\frac{\partial E}{\partial m} = \frac{-1}{ns} \stackrel{ns}{\leq} (y_i - m x_i - C) x_i$$

$$= \frac{-1}{2} \left[ (3.4 - 1(0.2) + 1) 0.2 + (3.8 - 1(0.4) + 1) 0.4 \right] = -1.34$$

4. 
$$\Delta m = -n \frac{\partial E}{\partial m} = -0.1(-1.34) = 0.134$$

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

S. m = 1.13 +0.11 = 1.24 , C = -0.52+0.38 = -0.18

6. iter = 3

7- if (iter zerohs) goto steps

3>2

else:

geto step3

m=1-24, C=-0:18.

Nin 1 a

8.