Name: Zain Al Abidin

Rall no: 211-6260

$$\frac{S_1}{\text{in MSE}} = \frac{1}{m} \left(\frac{m}{\xi} \left(\frac{yi}{a} - \left(\frac{a + \exp(ni + b)}{m} \right) \right) \right)^2$$

$$\frac{\text{(ii)}}{\partial a} \frac{\partial MSE}{\partial a} = \frac{-2}{m} \frac{m}{i^{2}i} \left(y_{i} - \left(a_{i} \exp \left(x_{i}^{2} + b \right) \right) \right)$$

$$\frac{\partial mse}{\partial b} = \frac{-2}{m} \left(\frac{y_i}{y_i} - \left(\alpha + \exp(\chi_i^2 + b) \right) \right) \left(\exp(\chi_i^2 + b) \right)$$

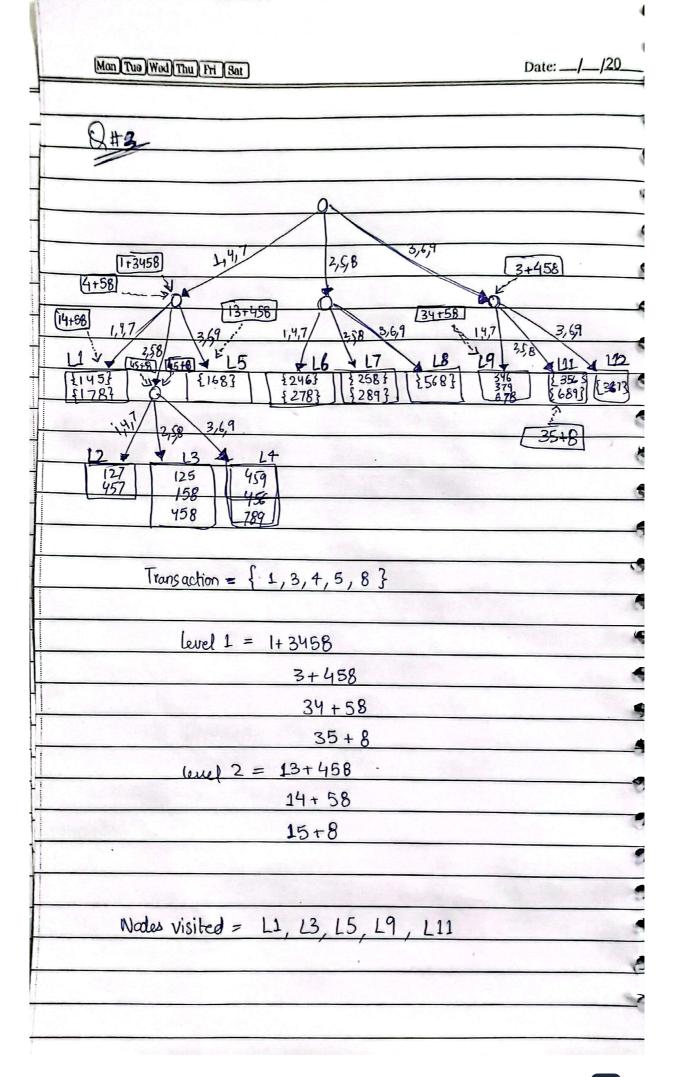
(iii) def batch-gradient Descent (X, Y, learning-rate, iterations)
$$a = 0, b = 0$$

$$y_{pred} = a + \exp(\alpha + b)$$

 $d_{a} = (-2/m) \times Sum(y_{pred})$

return (a, b)

$$\{e\} = 8/10$$



Mon Tue Wed Thu Fri Sat	Date://20
(null)	
c N c e (a) (b) (c) (d)	(e)
I I N N I N N CM (ab) (ac) (ad) (ae) (bc) (bd) (be) (d)	I C (e) (de)
I I I I I CM I abo (abo) (abo) (ace) (ado) (bcd) (cm I I bue bde (ude)
I I I I (abce) (abce) (acde) (acde)	I locde
· Ī	
(abcde)	
T 2 il	
I ⇒ infrequent sets M ⇒ maximal frequent itemset	
C => closed frequent itemset	
C ⇒ closed frequent itemset N ⇒ maximal now closed frequent it	emset.