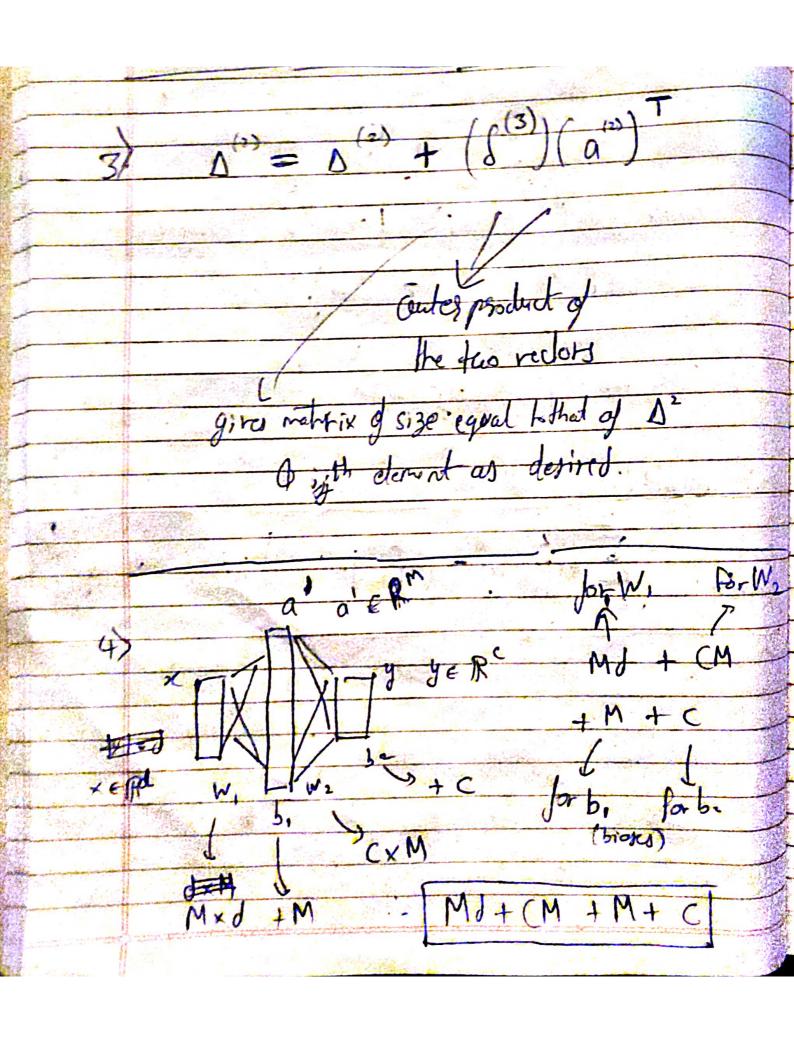
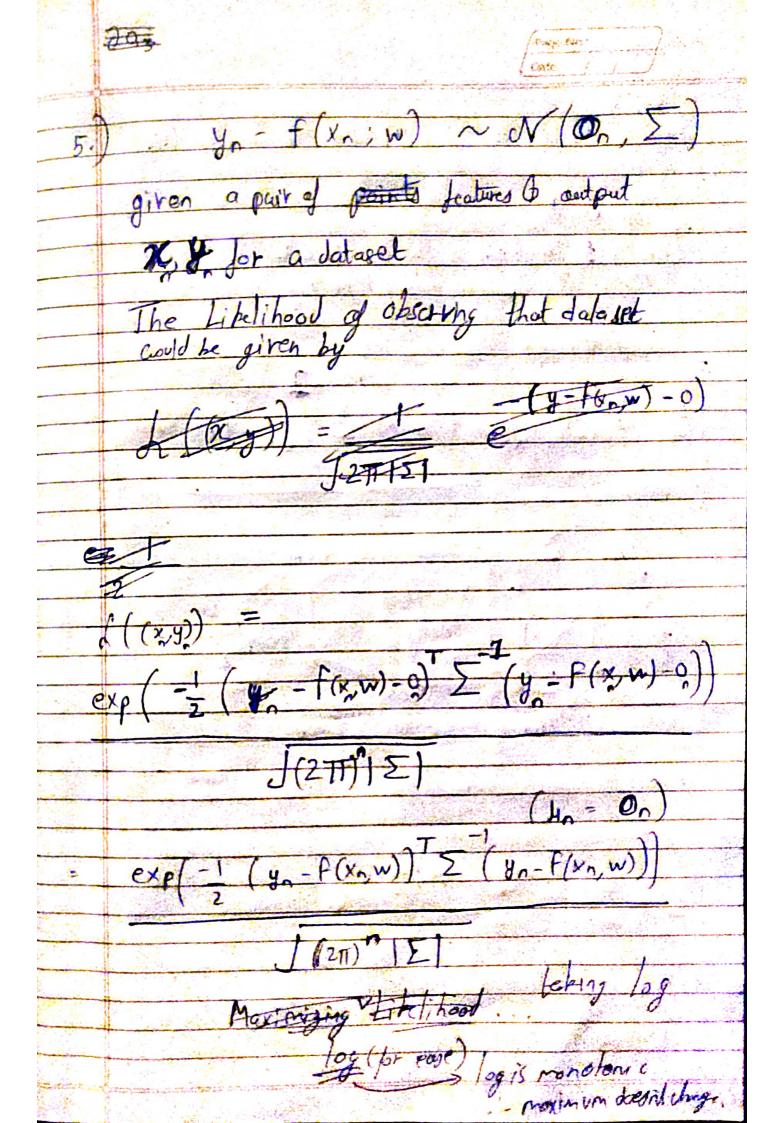


	Compa No.
2)	let for represent error term contemponding to let layers
	then .
	$\nabla F = (S_i^2)(x_i)^2 = (D)$
	cher $(S_i^2) = (\frac{2}{5}W_i, S_i^3)(h_i)'$
	where $(h_i^{1})' = (h_i^{1})(1-h_i^{1})$ (signoid)
	$(S_{i}^{3}) = (w_{i}^{3}f)(h_{i}^{2})'$
	che (hi) = (hi) (1-hi) (signoi) again
	Aubotituting all book in (2)
d F	$ = \left( \sum_{i=1}^{2} W_{ij}^{2} \left( W_{ij}^{3} f \right) \left( h_{i}^{2} \right) \left( 1 - h_{i}^{2} \right) \left( h_{i}$





I) = C 7 -1 (4n-F(rn, w)) [ (90-1

Cens / /

Given two layers related at by a scale of the following issue ould offife

if X is too lorge

scaled up a let B the other layer no scaled down correspondingly, one on observe the following

- In the layer being scaled up, we lose
  precision for representing the weights
  (as 32 bit or G4 bit floats) as ##

  # hoperal standords ||hI = F 754 are
  such that numbers space GW as
  they get lorger his right not manife
  the grandority reded for lararing efficiently
- · In the layer being scaled down, dome ceights might go down to ger o as simpless again cound represent all menters.

Another issue that could pirse is that due to multiple models in the hypothesis apace performing the same convergence.

