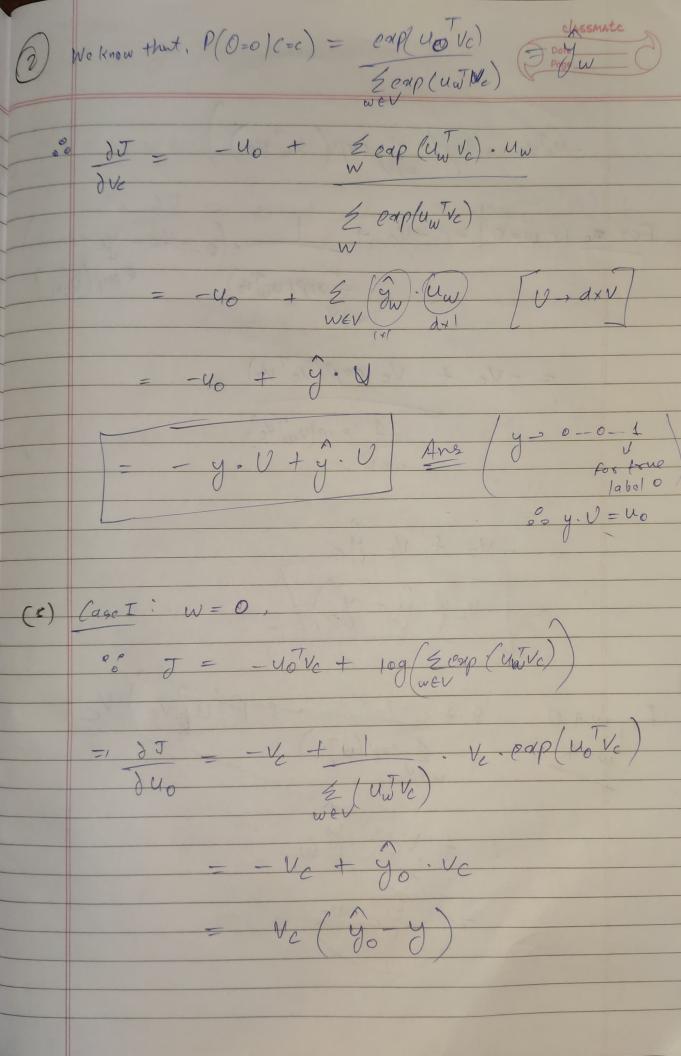
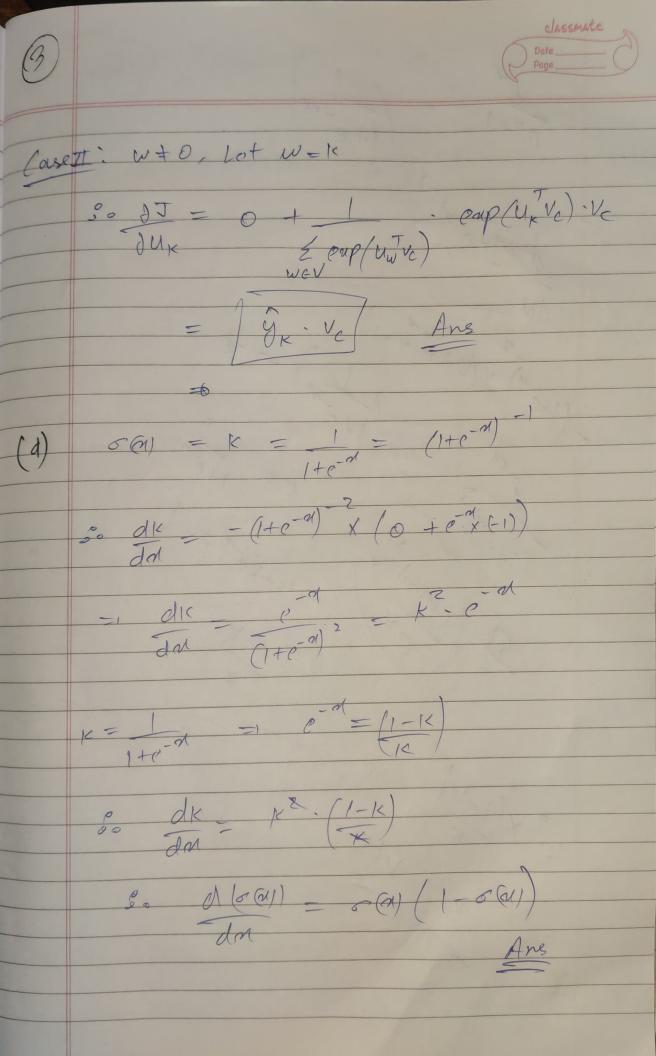
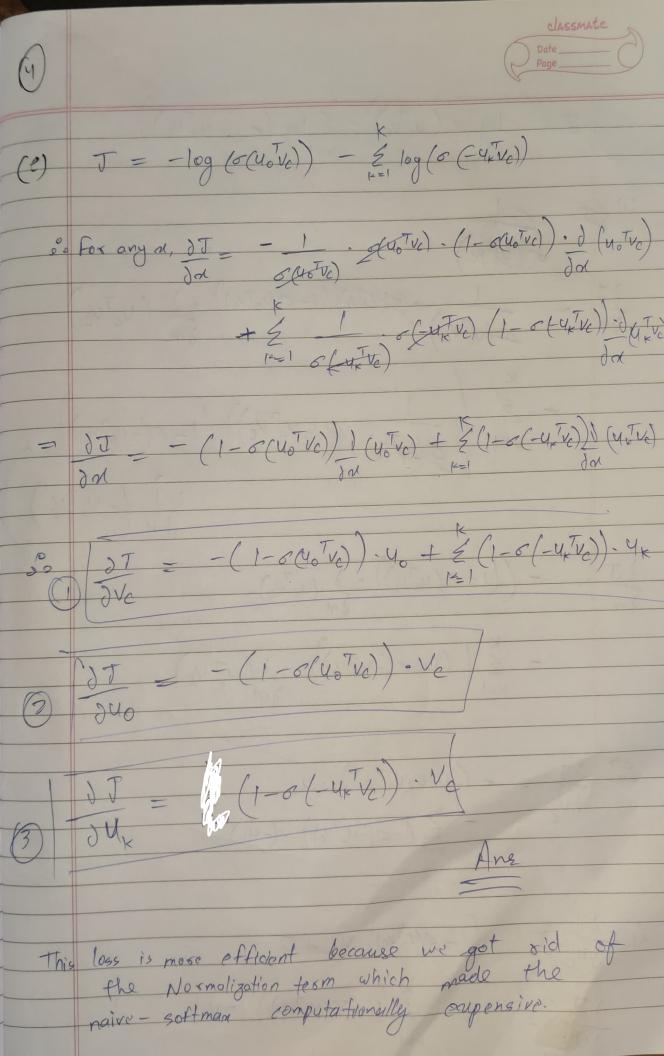
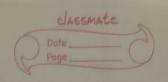
इती'	CS-224 N Date 10-06-21
	Ans To prove: - { Juloy (Ju) = -log(ŷo)
	y = one-hot vector with 1 at true outside word -0 and 0 at other word's places.
	so $y = [0.1.0]$ $\hat{y} = [0.0]$ $\hat{y} = [0.0]$ O-word sposition Prediction to $x = 0.0$
	= - \(\frac{1}{2} \tau \tau \log \(\bar{y} \) = - \(\bar{0} \tau \bar{y} \) + \(\bar{0} \tau \bar{y} \) + \(\bar{1} \tau \bar{y} \) \(\bar{0} \tau \bar{y} \) \(\bar{0} \tau \bar{y} \) \(\bar{0} \tau \bar{y} \bar{y} \)
	hence proved
1	
(6) Am	Thaire-softman $(V_{e,0}, V) = -\log P(0-o C=e)$
	= -log enp (uo Ve) 2 enp (uu Ve) we Vocab
	to find: DT.
Ans	We know that -log (eap (40T/c) 2 onp (unt vc)
	= -uotre + log (& emp (uwtre))











(f) Given: Jsg = \$\forall \text{\supersystem} \text{\supersystem}

 $\frac{\partial}{\partial v} = \frac{1}{\sqrt{2}} \int \int \frac{dv}{v} dv$

Tiil dog = 0