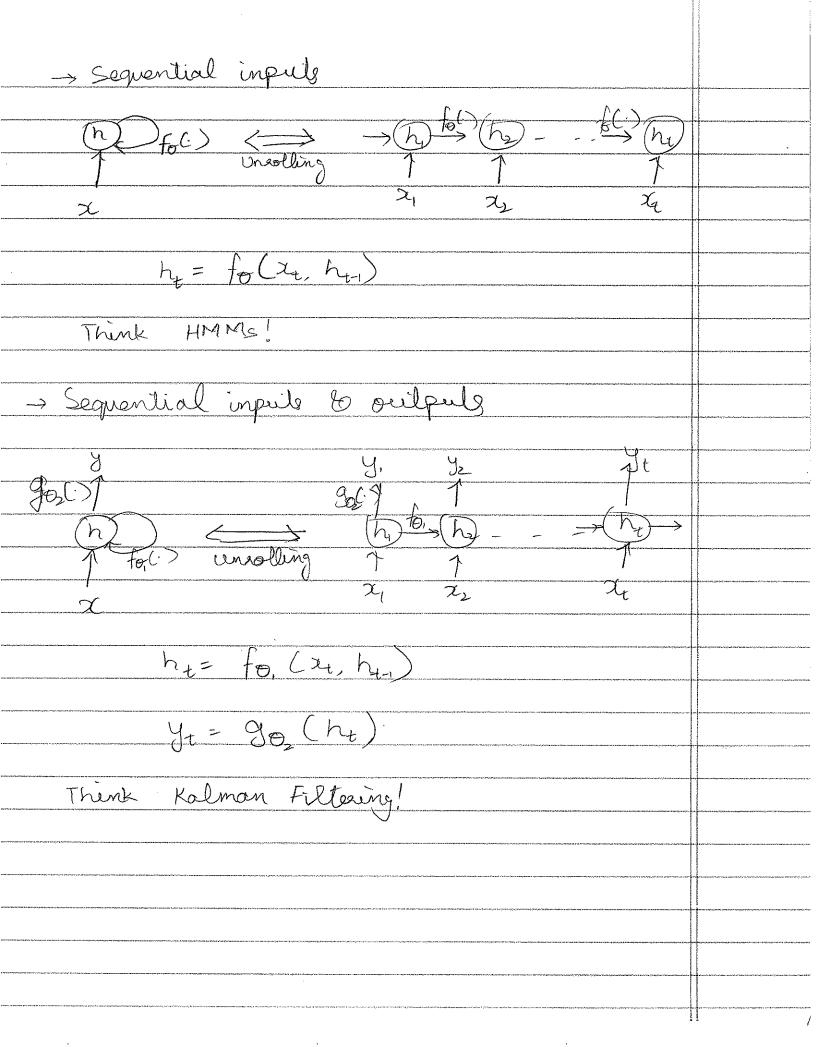
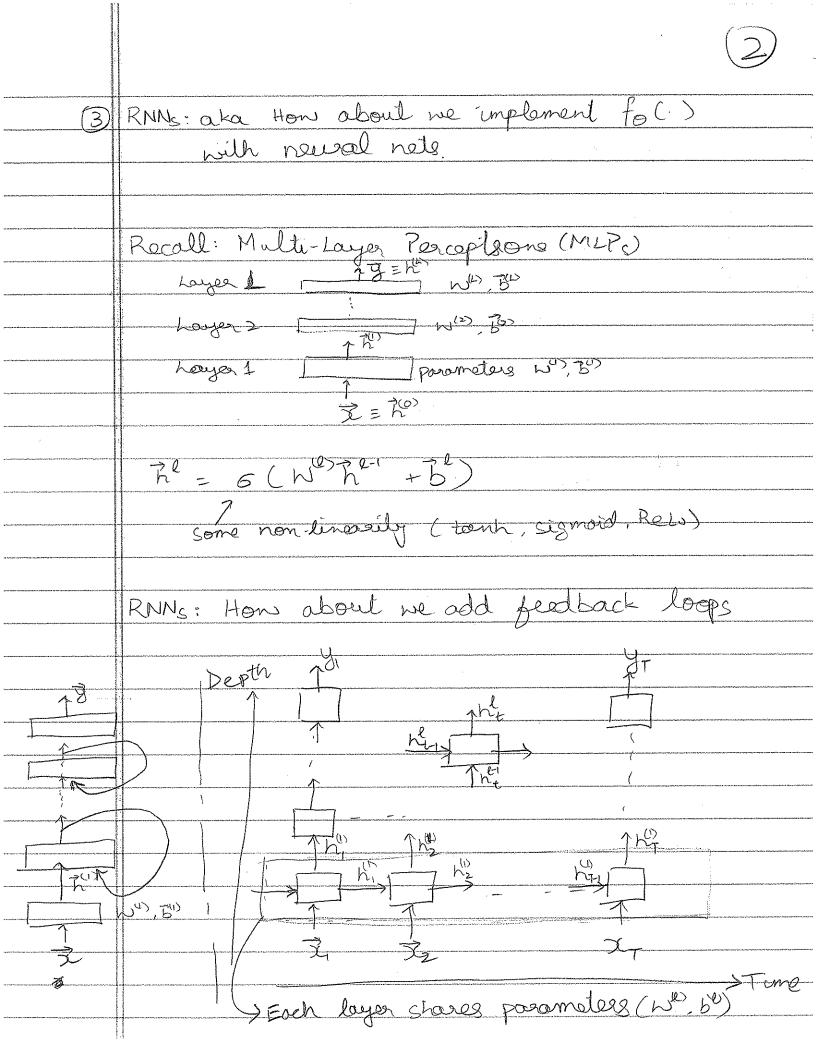
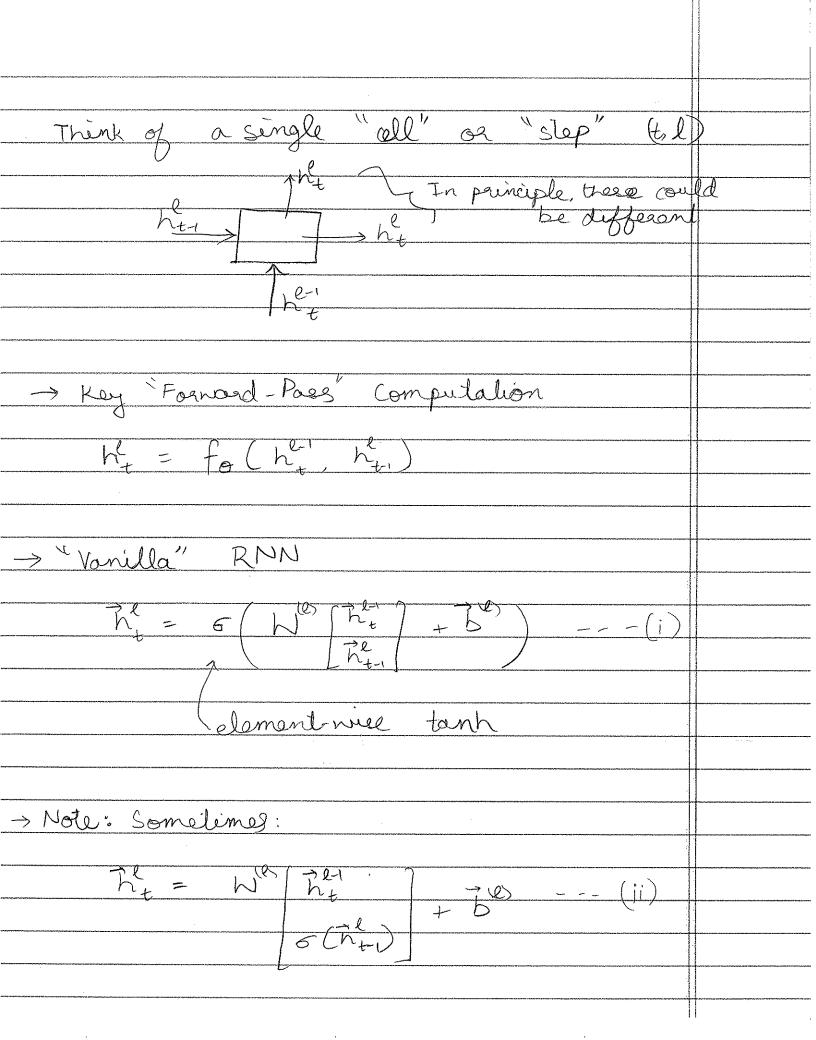
018115	RECURRENT NEURAL NETS RNNS
	Motivation (2) Sequences <x, ,="" <y,="" x2,="" x7="" y7=""> are everywhere! Then do we model input/hidden/output Sequence? [Especially when sequence length is not fixed/constant]</x,>
	(B) Hon do we begin to model "memory"? → So our model "remembers" data from post? → a remembers what it has already. Predicted?
	Most General Formulation And General Formulation $f(c)$ And $f(c)$ And $f(c)$ Function $f(c)$
	Think Maakov Chain! f = non-linear function D= pasamoles







->	Claim: The two forms (i) to (ii) are equivalent.
	why?
	Proof Shelch: Just different nous of improvaling
	Proof Shelch: Just different nays of incorporating non-linearity. Either at slowl or end.
	34)
	no Inmer Non- Product Linearity IP Non- Product Linearity IP Linearity
	A A A
	Approach (i) Approach (ii)
	calle this a calle this a
	lager lager
	So thail's a "Vanilla" RNN.
	-> Generalizations:
	→ change non-linearily (ReLu) → Change cells altogether (LSTM, GRU)
	-> Change cells altogether (LSIM, GRU)
75	-> Change 1000e / graph claudure
	To e.g. what if layer 5 looped back to layer 2?
	h²:
	ى
	I what do me got?
	1 ON ASSE
	THIR: not a gaid?

