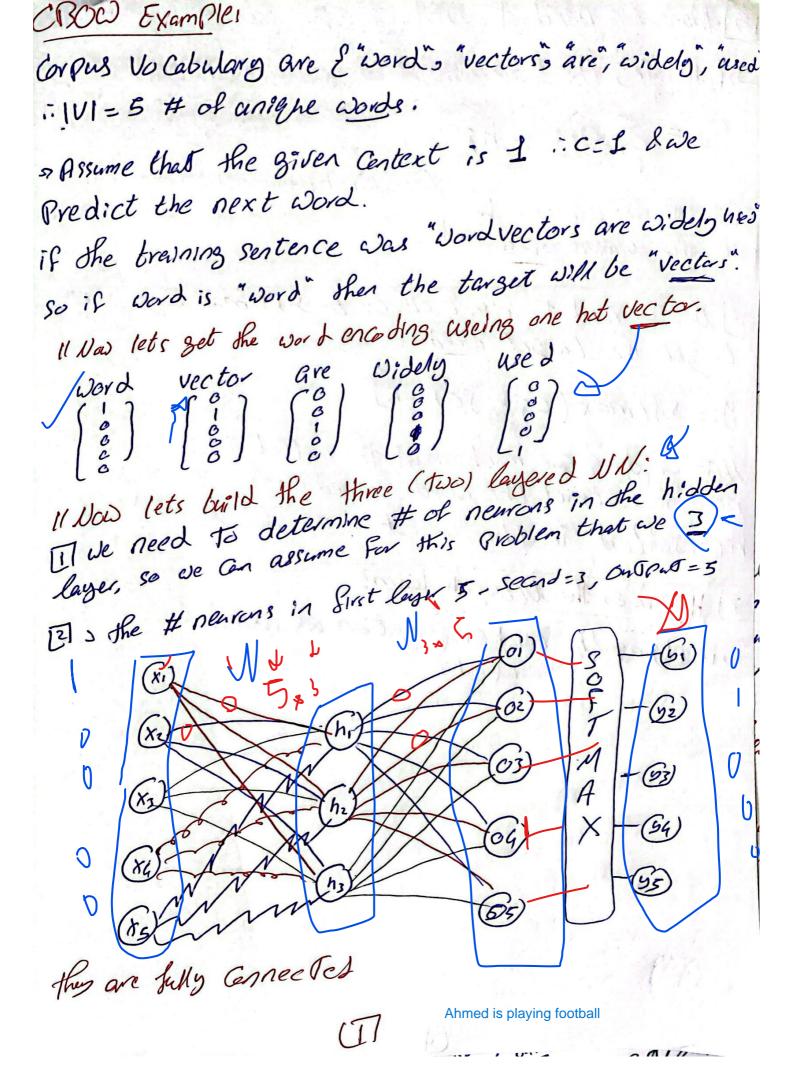
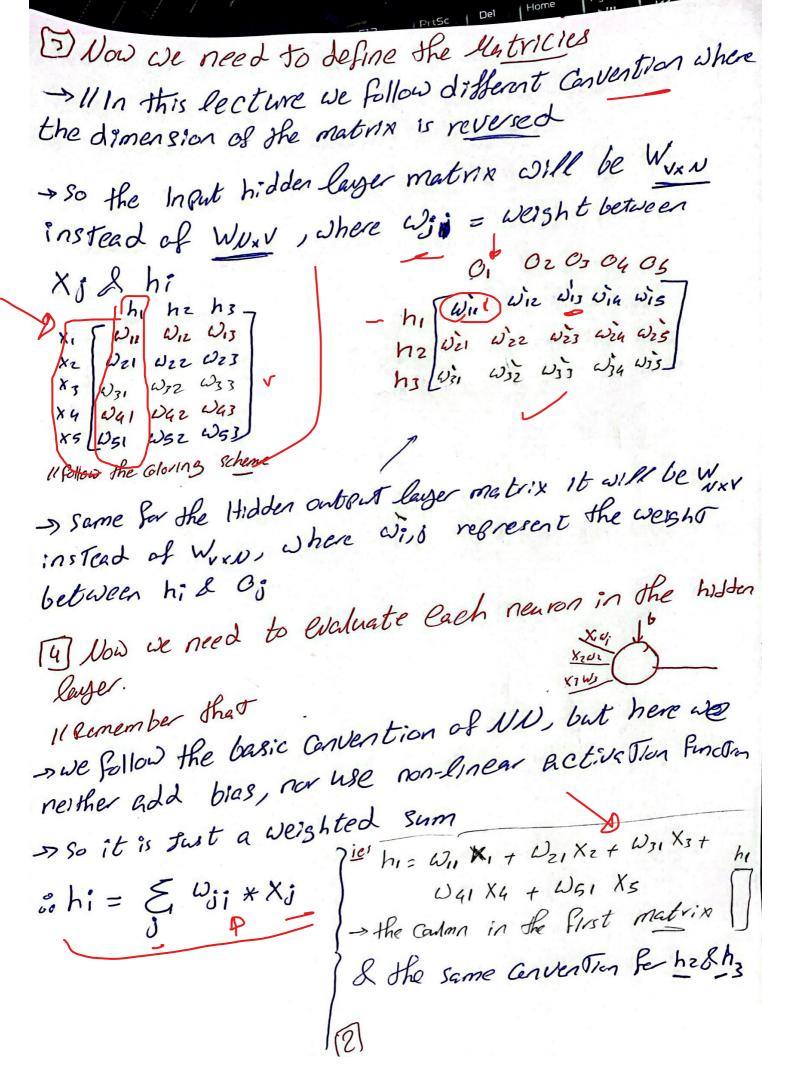
Notes About Word EVEC: -> Word & Vec -> tent 11 red i lil oreino PL 113 ML 11. · Neumeral des Tent 1 de sie () de -> tf-idf & Cents doesn't perserve and relationship between the words & this is where the word embeddings Gome in. doamet 26 69 050 26 = 15=1 Elds 1 War th-idf 11 0xc مكى مى بيقولك ازاى ورتبطك بالكلك التانية. - PPAI persence the relationship between which depending on sparse natrix, but we went to have a dense matrix to regresent the relations, more over in wordevec we use UN, while PPMI uses classical meshods such as counting V make sense 1,5 de Les dies evil M Context 11 que jueu aurievee, des g word 11 cos sel of ardevec 1 co the x1 osellos also its orest olgo ogse os vector 113 vector Coly do Cali out "Kr cred on 3009 Continous Bas of words any abodevec 11 do ourge Liss 9 SKin Gram e layer NN SKIP Gram

Samen Grample

"King - men + women = queen





15) NOW We need to evaluate the newons of outpat -> Following the same Convention, we get this equation Oj = E Wij * hi | Oi = Will * * Noi he + wishs

Collew the same ancenter for Coulmn of Oi in the matrix [] or

all other Newsons 01-5 6) Now we need to insert all 0: to set man layer first to get the target word. y:= Sstman (0;), bE[1-5] Note: We don't are much about the output because we form need to extract the word embeddings which are represented in the weights of the Matricles. 7) How does the Network learn? - Applying the backpropagation as usual to adjust weight

4) For (CO) (CBOW Problem in sheet)	
4) For CBOW model, if we have number of words in a the dimension of the embedding is & i) draw the Network.	bcabV
i) draw the Network.	
MRemember that the Input layer is CV There c:	s she
the size of each unit	1/
is similar to the # of unique words in the co	Yahlas
GAMES TO CONNECTED ON	
Car Pus Car	Ceding wipor
hidden Preons	
lager	
ii) what are the # of new vons in the hidden laye?	ſ
-> It is given in the Problem -> d = # of embedding = # of newcons in h	idden
iii) That are the dimensions for Jeisho materillage.	
belien in a matricles without not	
> each of them will be of stee Wyxd.	Sher
He normal Convention in newval networks, as a the world make it was	escally
the normal Convention Waxv. We would make it waxv. We would make it waxv.	John 8
we would have the diminsion for weight was	0724
- It would be MaxV	
IN what are dimension of input/output rectors? I) what are dimension of input/output rectors?	