Hyper planes can correctly dossity all the given data tuples. we have the hyperplane with very længe mangin at classifying hahve data buples then the hyperplane with the smaller magin. This is why sum searches he hyperplane with the great margin that can be defined as maximum maginal hyperplace (MMH). On this the association gives much seperation between he classes. The distance from MMH to newest training tuple of the classes. The MMH in the new space corresponds to a non-linear hypen switare in organal swikere is called MMH

3) Back propagation:

This learns by iteratively, processing database of training tuples, This compones the network prediction for each tuple with the actual value we required. The modification is made in the backcoard linchen that is from output layer through each layer dow to hist hidden layer here the name back propagation. The troopet values may be known class latel of training types

D: data set Consisting of the terning triples and the in Faputs:

I L: This has the learning rate + Network: a multikyer feed-forward network

Steps:

\* step1: initialize all weights and bias in network step2: while end readily exit radihar is not sobs hied step 3: 2 For all training type xin D 11. give the input

slep4: Son each input layer unit j?

skp5: Output (i) = Input (i)

11 Output of a input and is assigny its achief value

For each hidden on output layer unit [ slep&

Ij= = wij Oit Oj; //compute he net input with respect to poerious layer step ?:

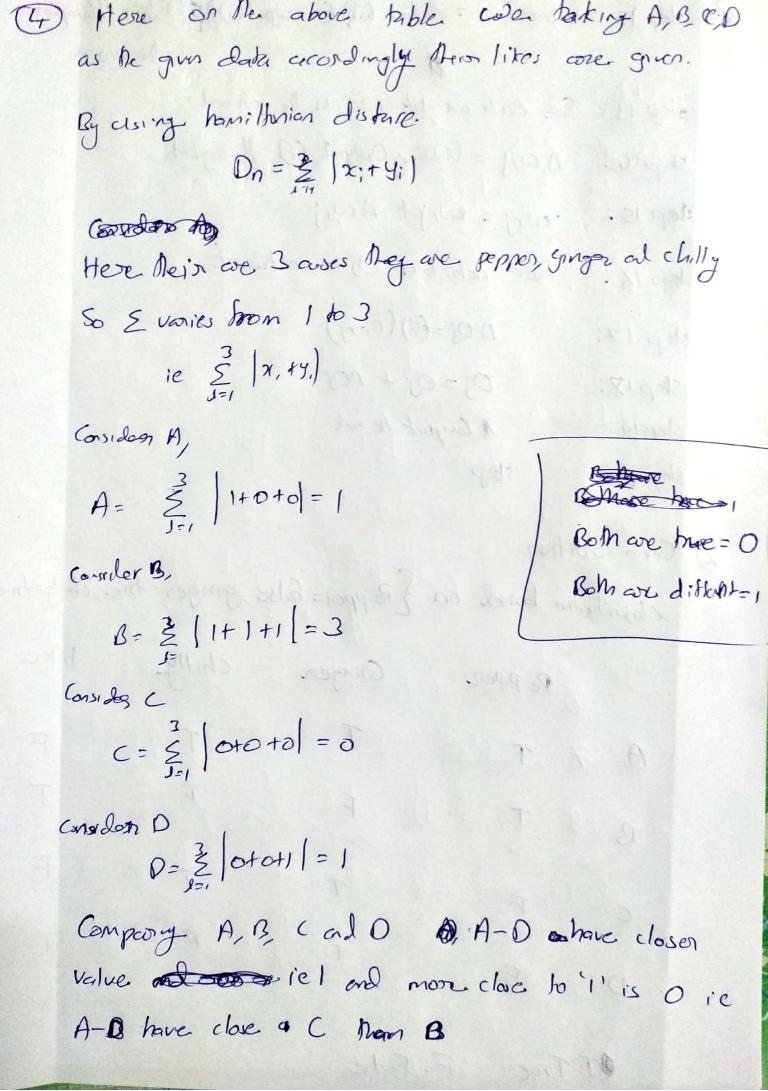
Outpot(i) = 1 | Kornupty each output step 8

skp9: for each unit i in output layer

Erron (i) = Output (i) (1- Ochud(i)) (1-0;) skeplo:

For each i in holder layer last to hist holder layer slep 11:

| 3 step 12: error (i) = Output (i) (r-autput (i)) & Emisk/Computing |
|--------------------------------------------------------------------|
| of the times                                                       |
| step 13: For each weight wij in the returnt.                       |
| skep14: A avij = (1) Erry Output (i) 1/ceight                      |
| step 15: wij = wij + Awij                                          |
| step 16: For each bias Oj in retwork                               |
| step 17: A:0j=(1)(Errj).                                           |
| step 18: $O_j = Q_j + AO_j$                                        |
| Step 19: 1 Compart he rok                                          |
| slep 20: stop                                                      |
| 2) Given Cordition                                                 |
| classifiation bastel on { Repper= Palse, ginger = the, chily=the}  |
| Pepper Ginger Chilly like                                          |
| A T TOTOTO F                                                       |
| B T F T                                                            |
| C F T T F                                                          |
| O Dial Folson and Solar State Francisco Solar                      |
| To True F: False                                                   |



A:- False

C: False

Among Mis Salse has majority. So & cre on say

People worth like it