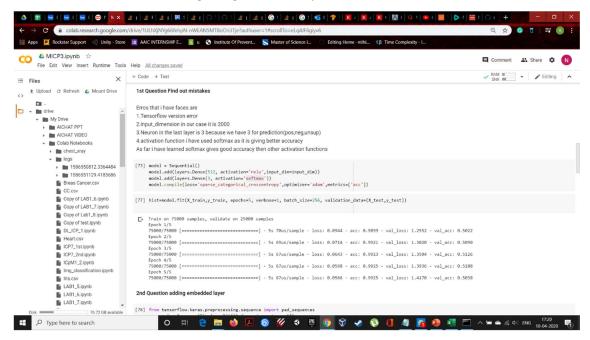
MICP 3

1.In the code provided there are three mistake which stops the code from running successfully; find those mistakes and explain why they need to be corrected to be able to get the code run.

Erros that I have faces are

- 1.Tensorflow version error
- 2.Input dimension in our case it is 2000
- 3. Neuron in the last layer is 3 because we have 3 for prediction (pos, neg, unsup)
- 4.activation function I have used softmax as it is giving better accuracy

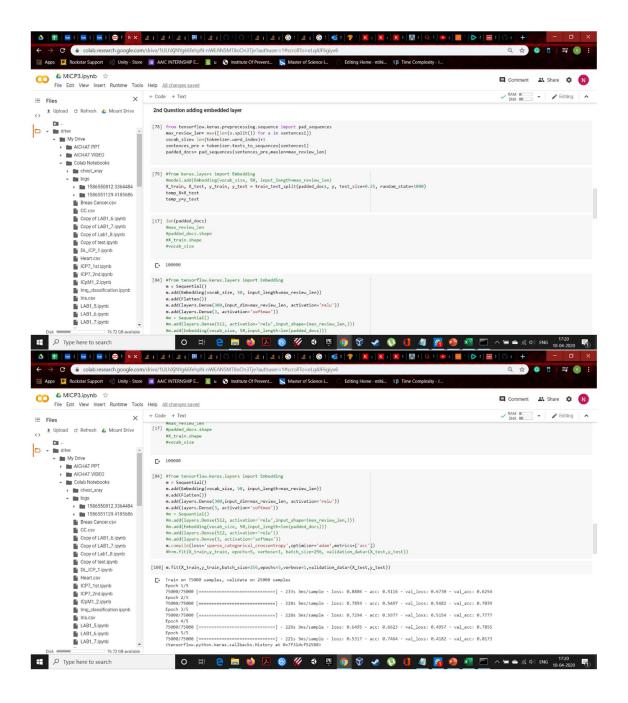
As far I have learned softmax gives good accuracy then other activation functions



2.Add embedding layer to the model, did you experience any improvement?

ANS:

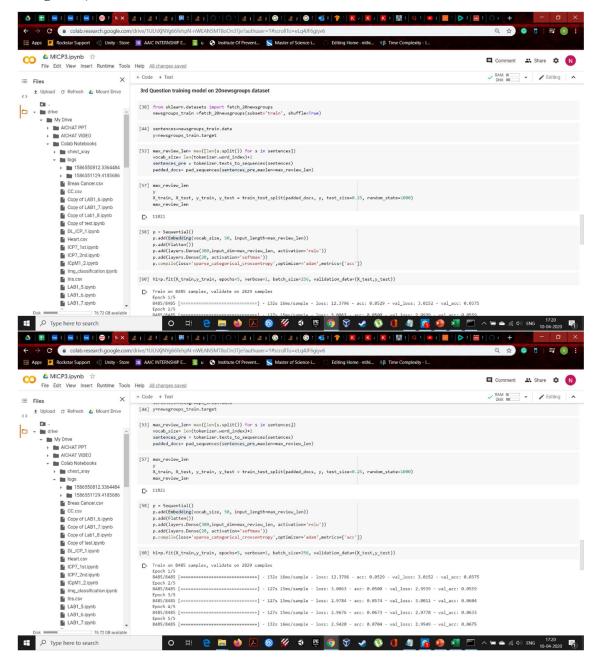
The accuracy got decreased but in the previous model it got overfit but when I have added embedded layer the accuracy and validation accuracy are at same point which means it got underfit.



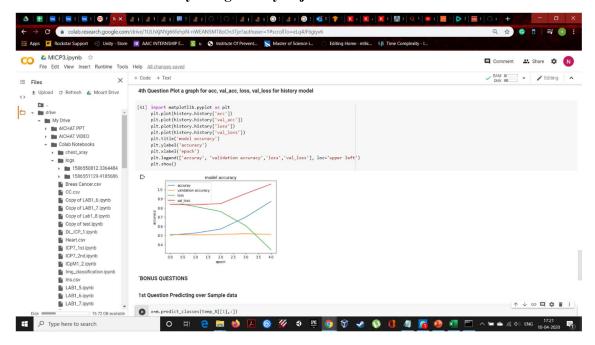
3. Apply the code on 20 newsgroup data set we worked in the previous classes

From sklearn. datasets import fetch 20newsgroups

newsgroups_train =fetch_20newsgroups (subset='train', shuffle=True, categories = categories,)



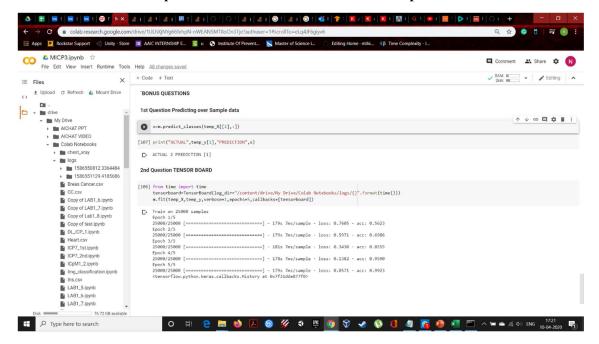
4. Plot the loss and accuracy using history object



*Bonus

Question

1. Predict over one sample of data and check what will be the prediction for that.



2.Plot loss and accuracy in Tensorboard.

