NEURAL NETWORK ASSIGNMENT 3

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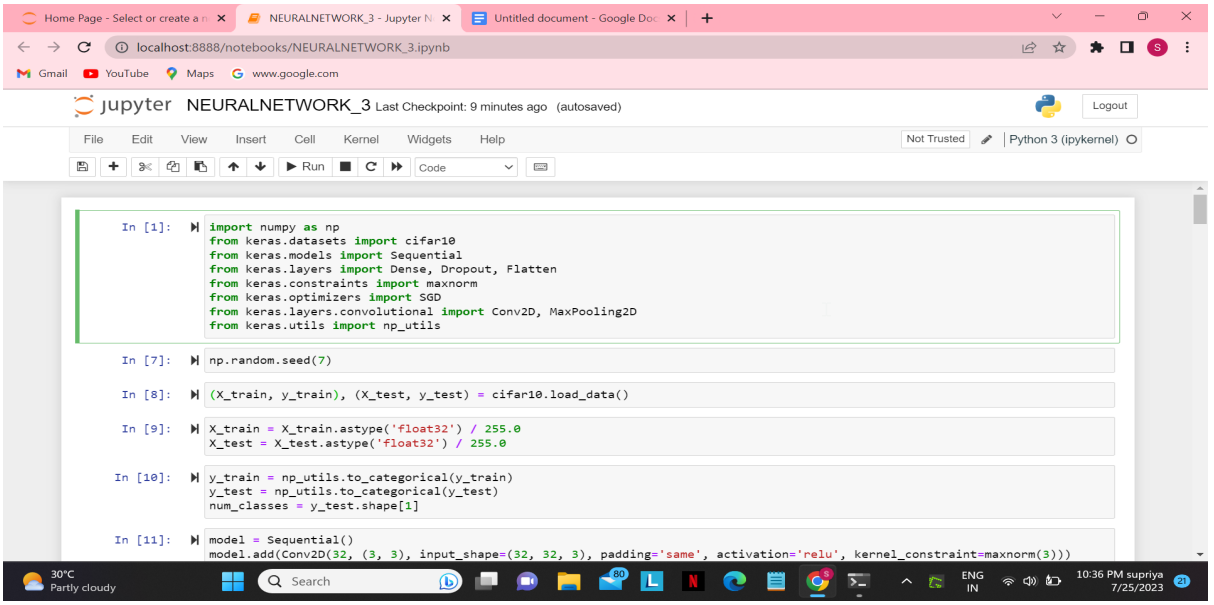
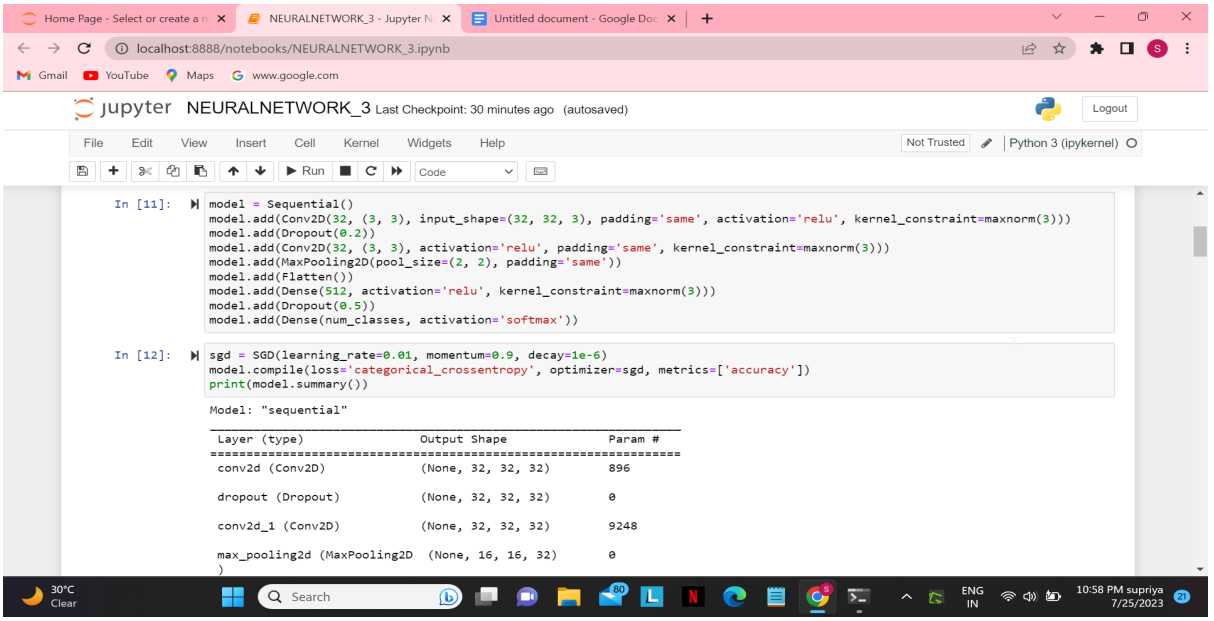
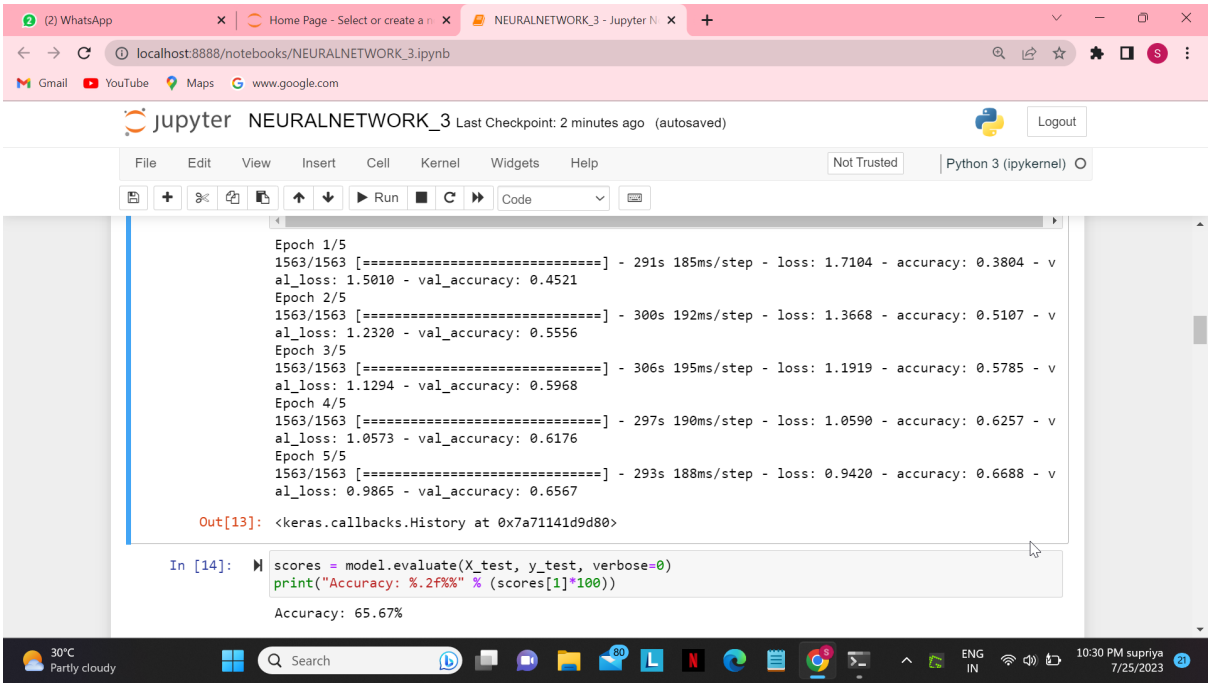
Video Link:
https://drive.google.com/file/d/1P7UEvjwiLlOalcGcg5xHZGBGX4b_DJrj/view?usp=sharing

1. First I have imported numpy, cifar10 and other libraries using “import”. Then applied all the instructions given.

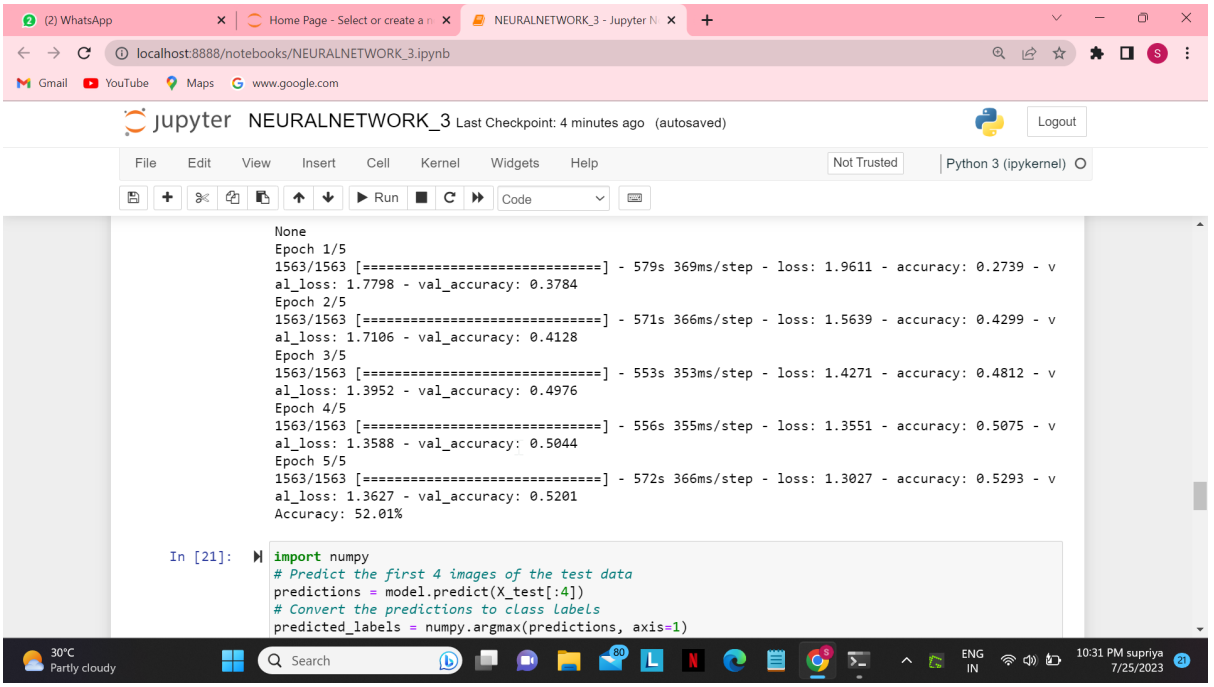




After applying all the instructions we got different outputs.

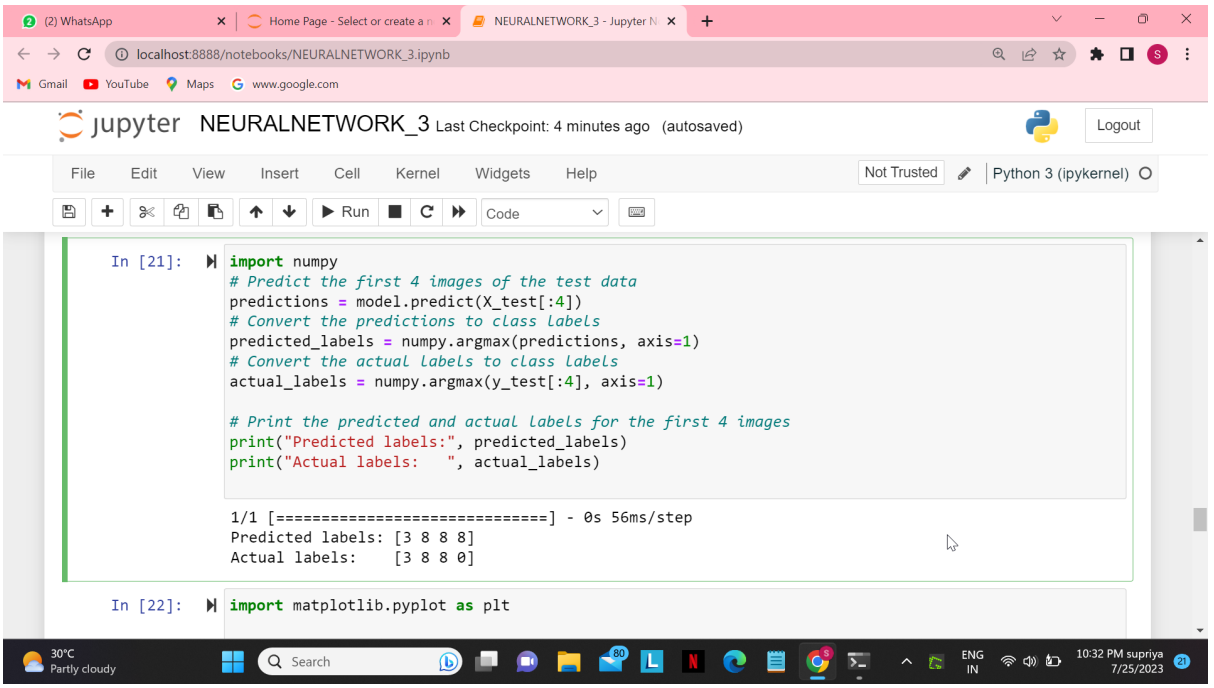


Here, we can see the accuracy is 65.67.



When it comes to the next output, the accuracy has changed to 52.01. We got different loss and accuracy for each epoch.

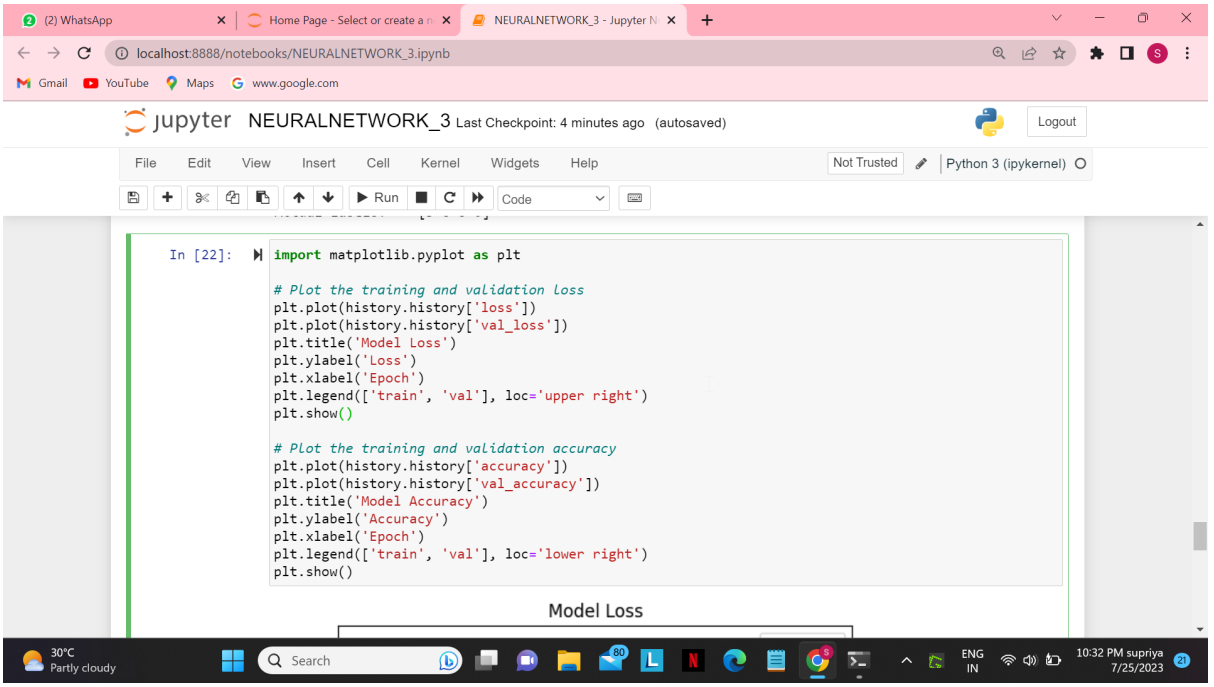
2. First let's predict the 4 images of test data, then let's convert the predictions to class labels. After that let's convert the actual labels to class labels as shown in the figure.

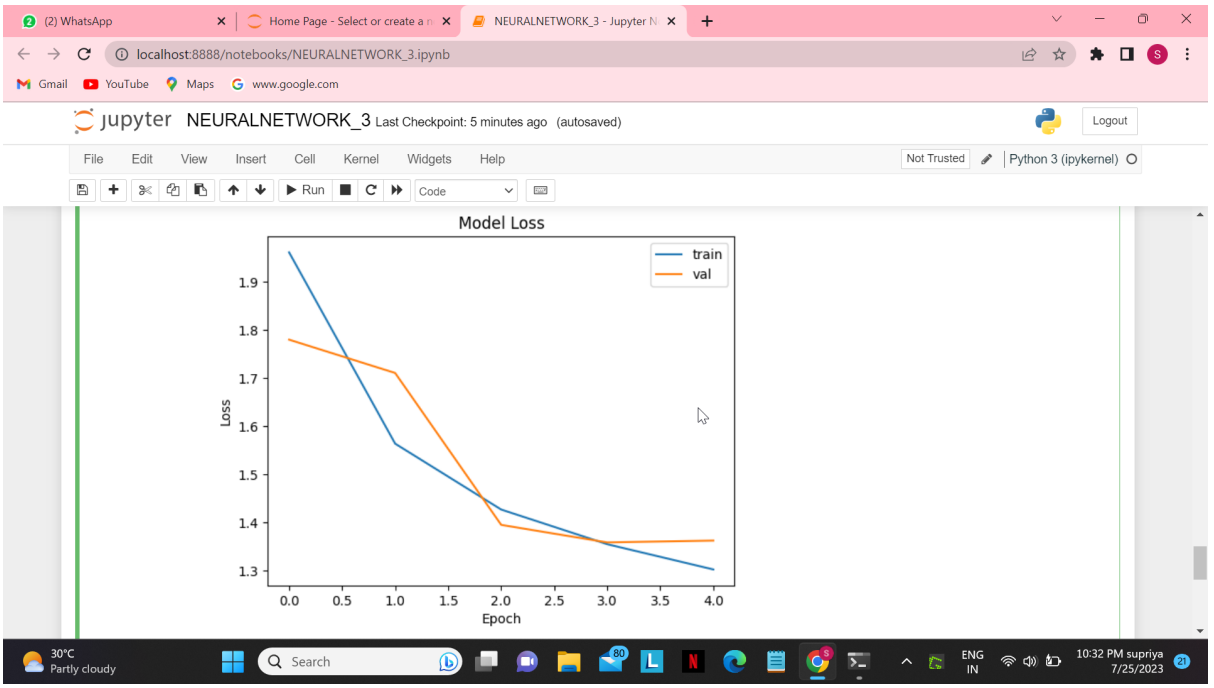


Here we can see the output, where the prediction labels are different from the actual labels.

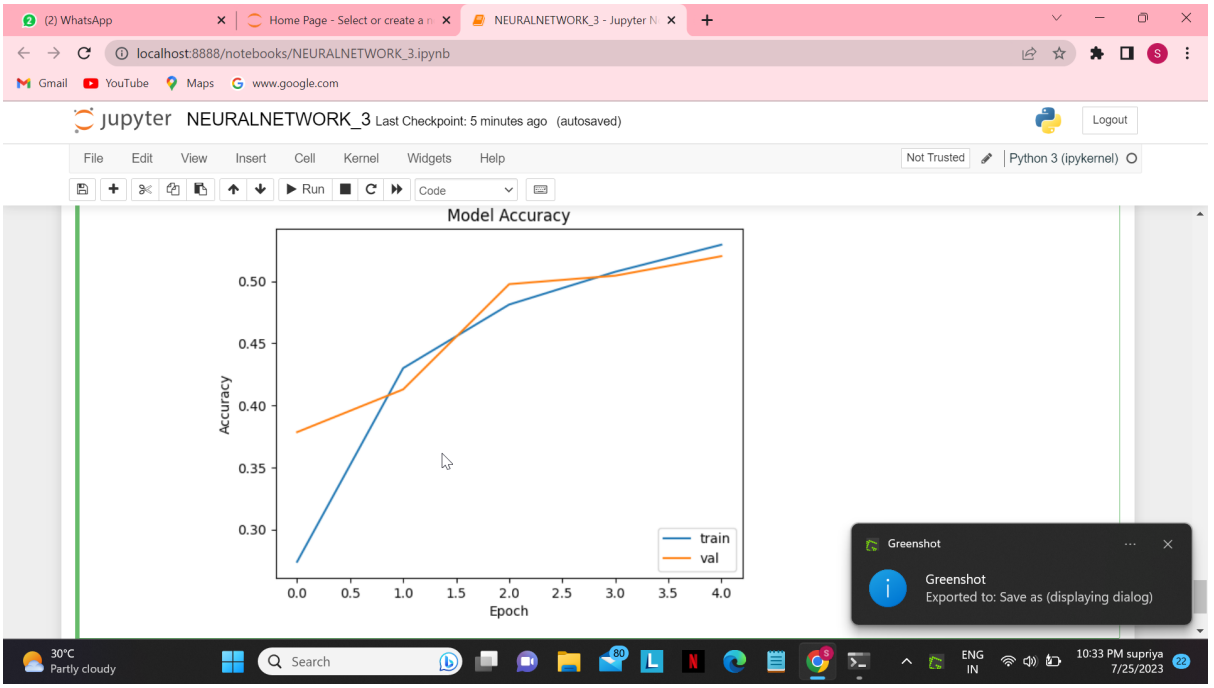
3. Now let's plot the loss and accuracy.

Here I have imported matplotlib.pyplot as plt.





This is the plot of training and validation loss.



This is the plot of training and validation accuracy.