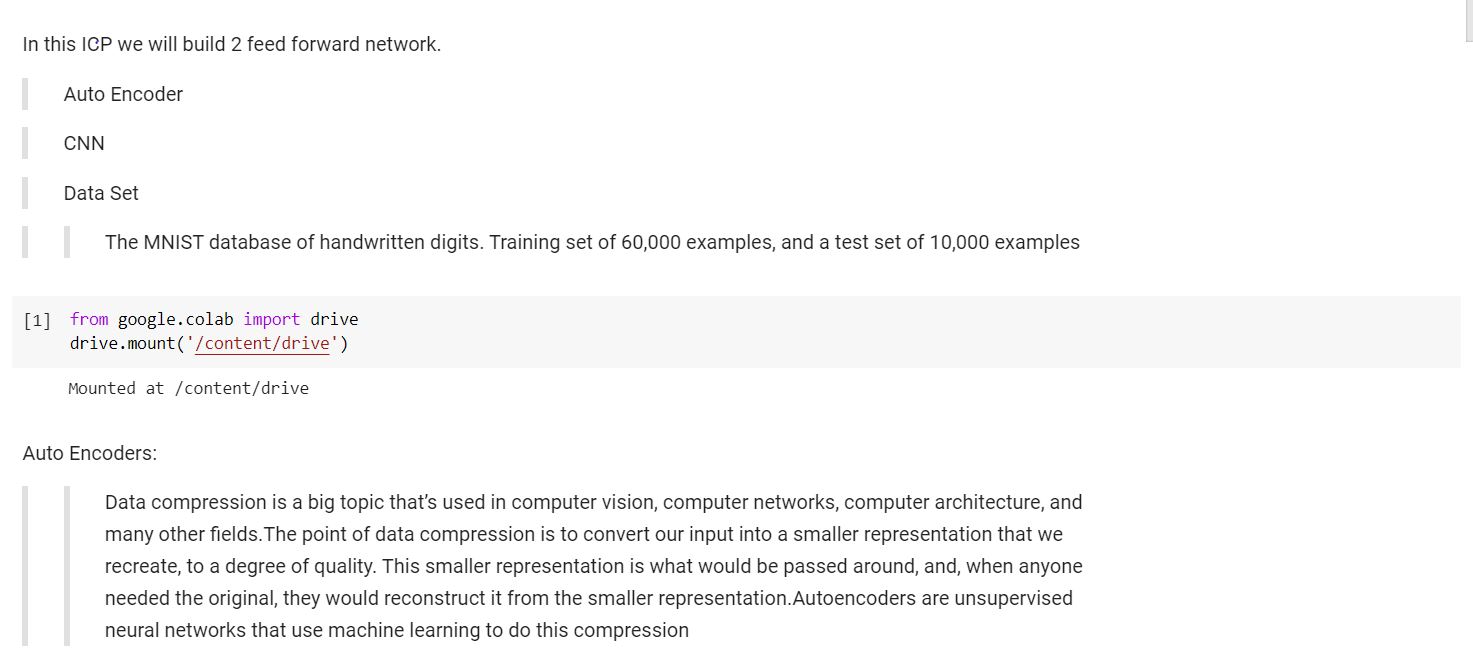
KDM: ICP 11

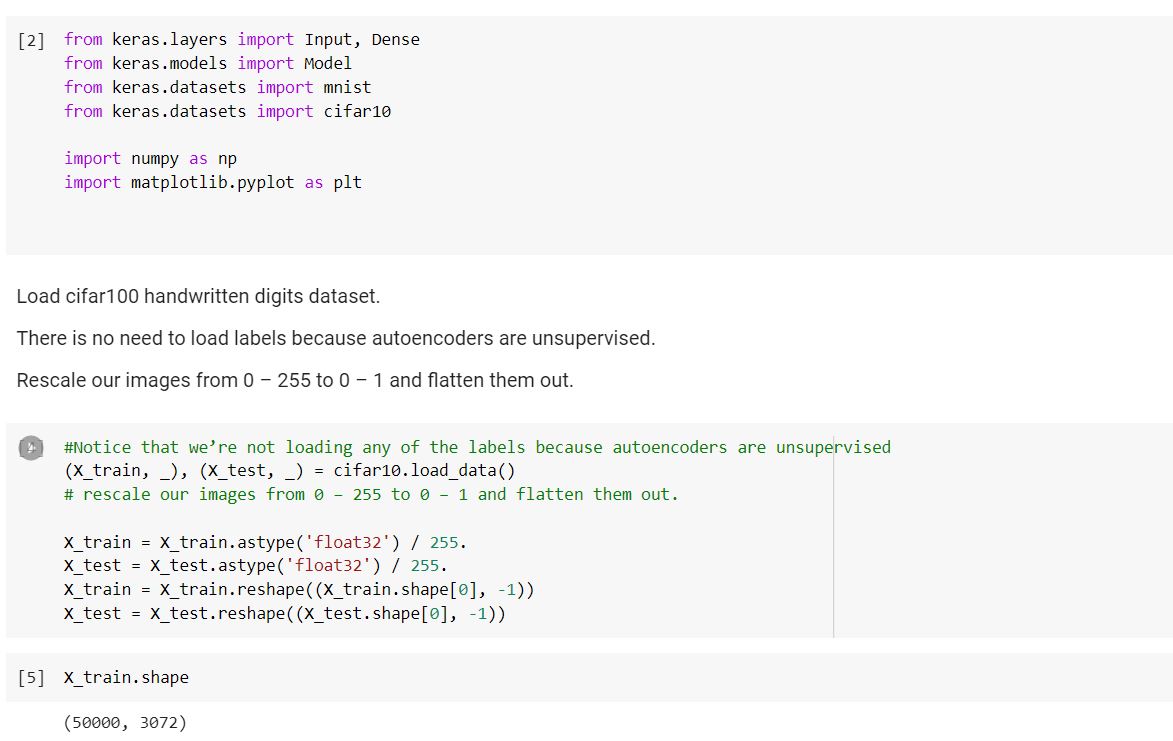
Name :Anusha Yanamala

Student Id:16317767

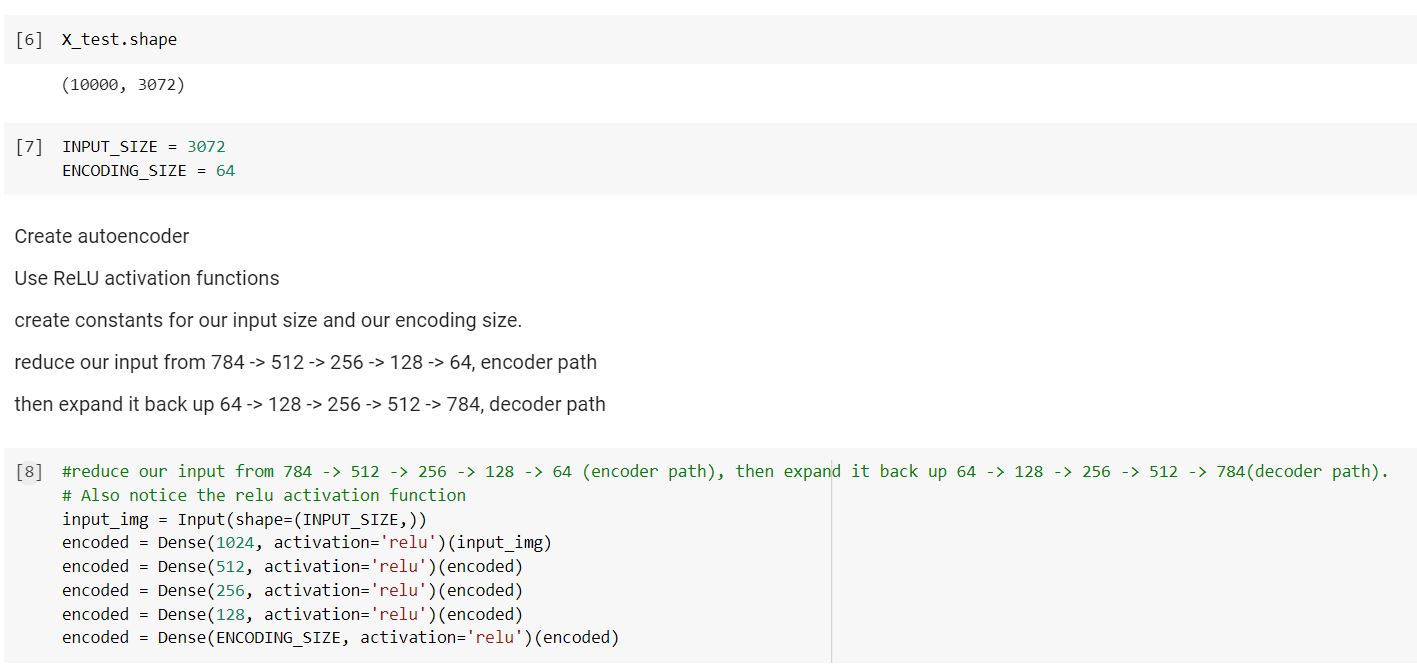
Here I am discussing about CNN conversional neural network. So we are building CNN using keras library.



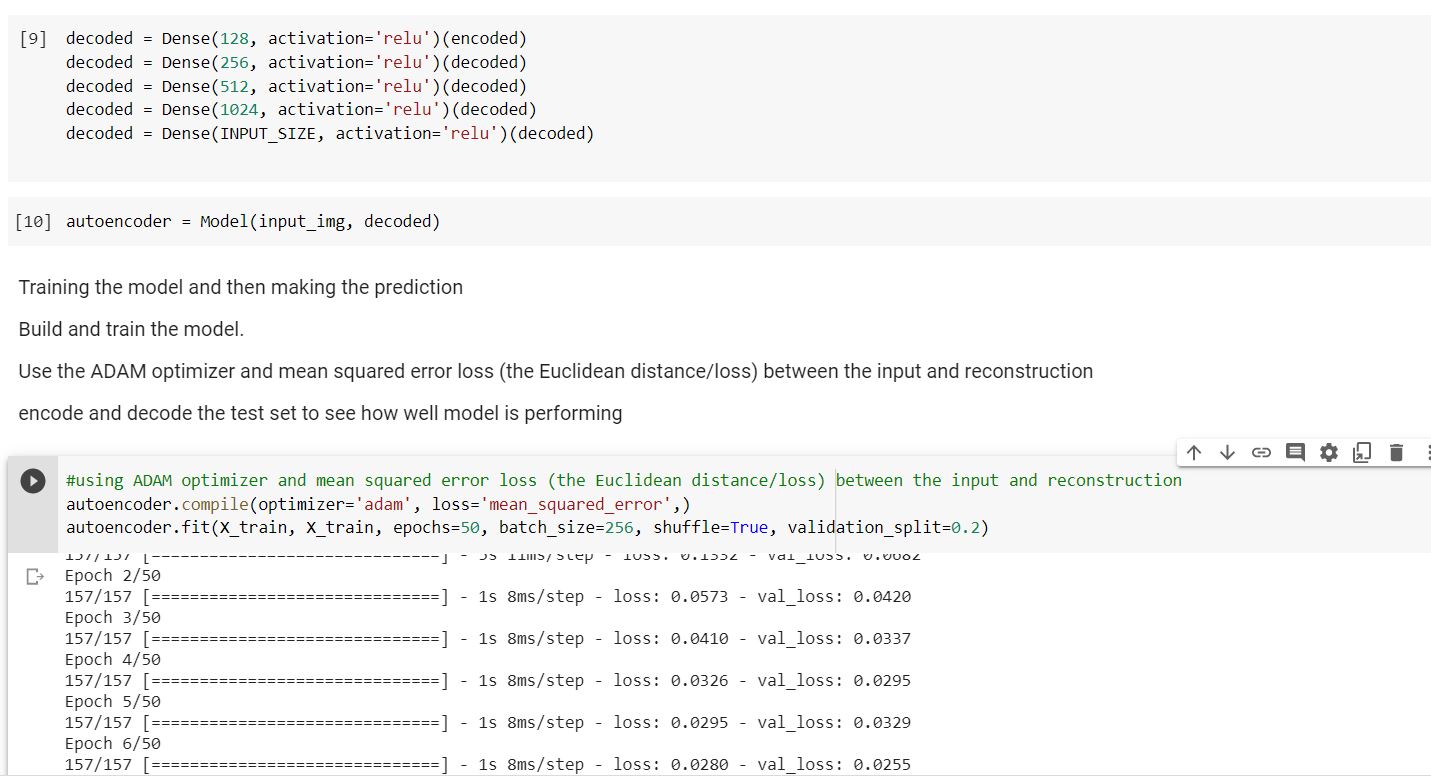
Here I imported all required libraries. I imported cifar10 dataset from keras.



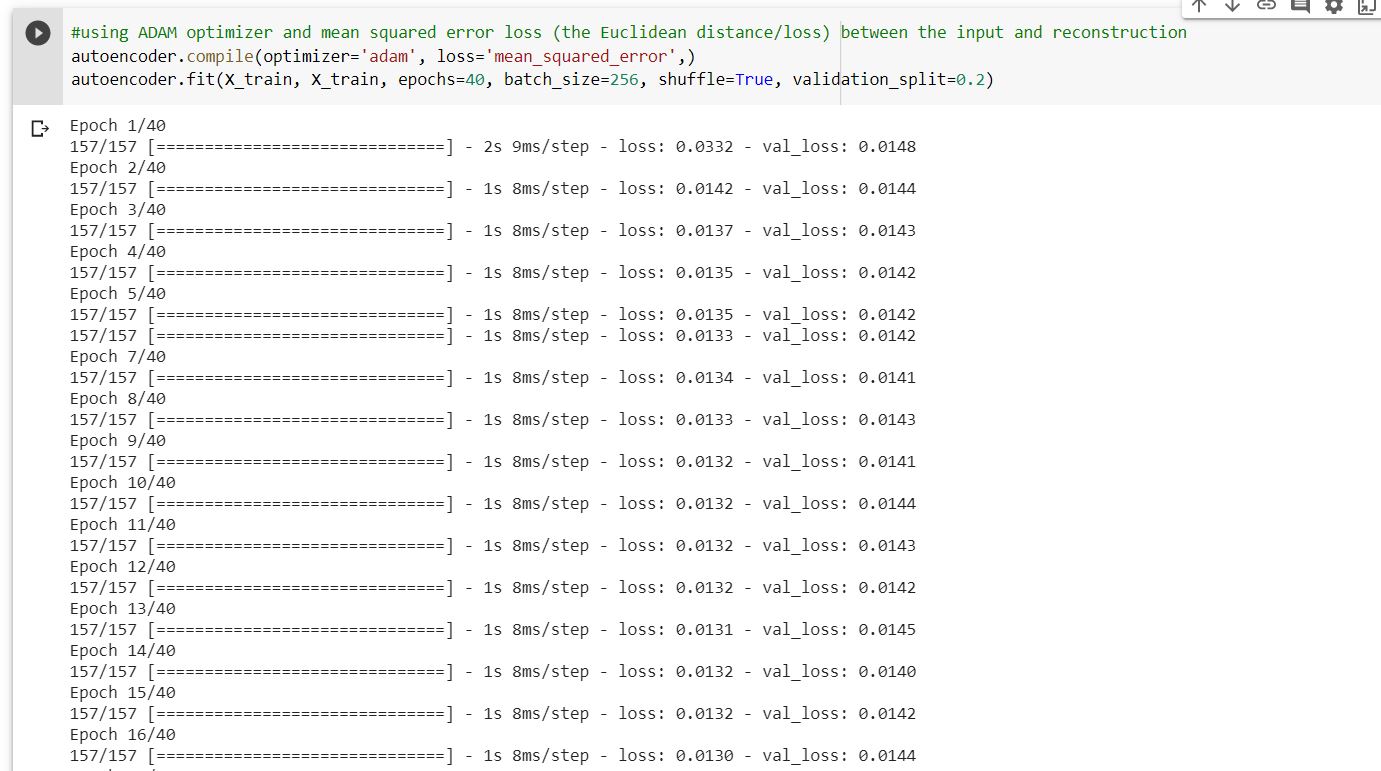
Here I added one layer. First we need to encode and then decode the layer.so to match the model I added one encoded layer.

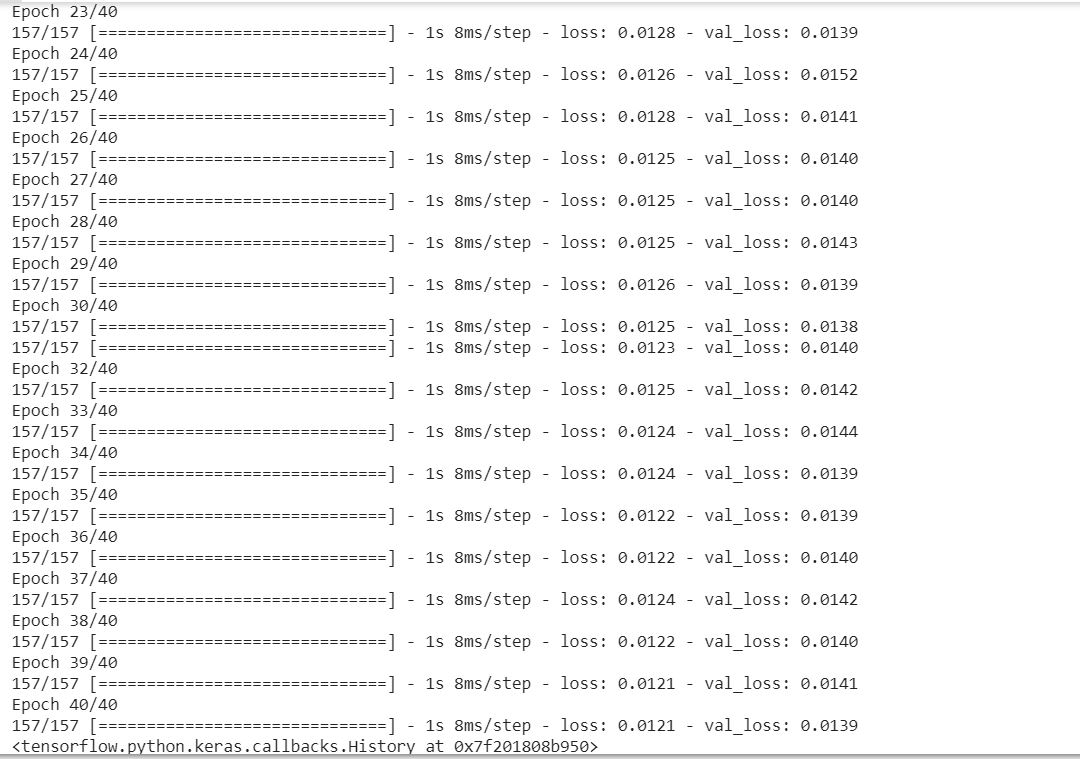


Added one decoded layer.

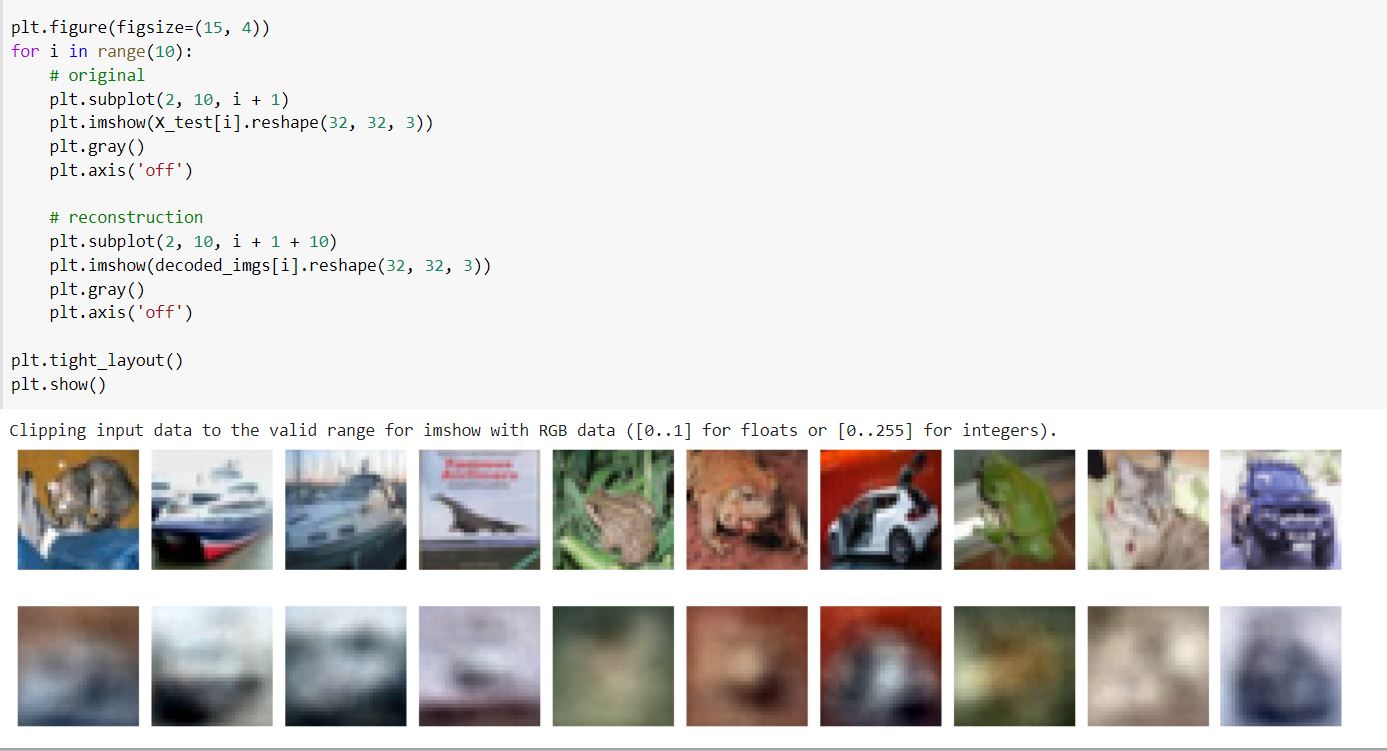


ADAM optimizer:

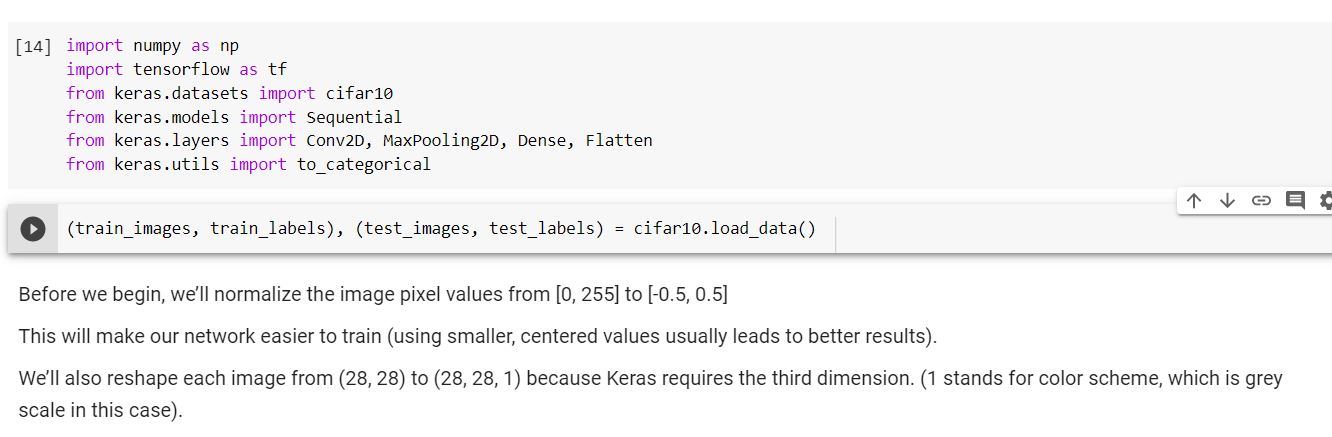


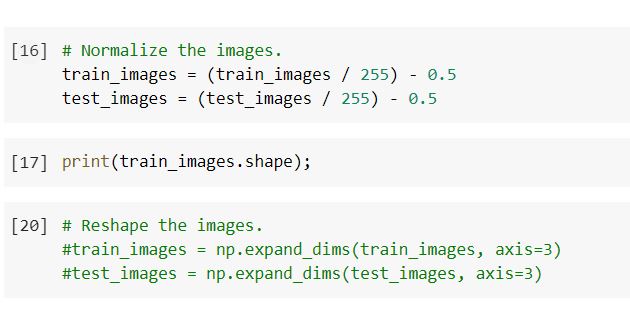


Here I have taken 15 images.

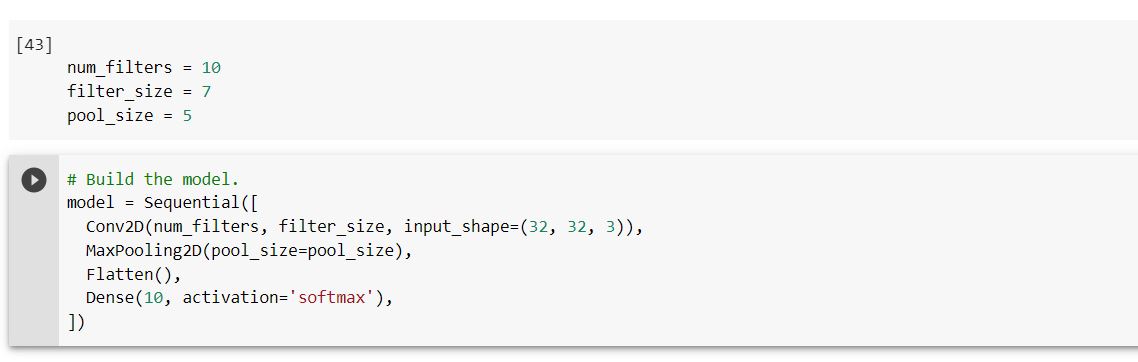


I imported cifer10 dataset.

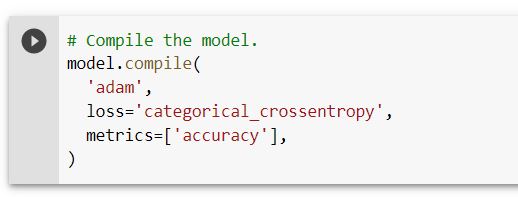




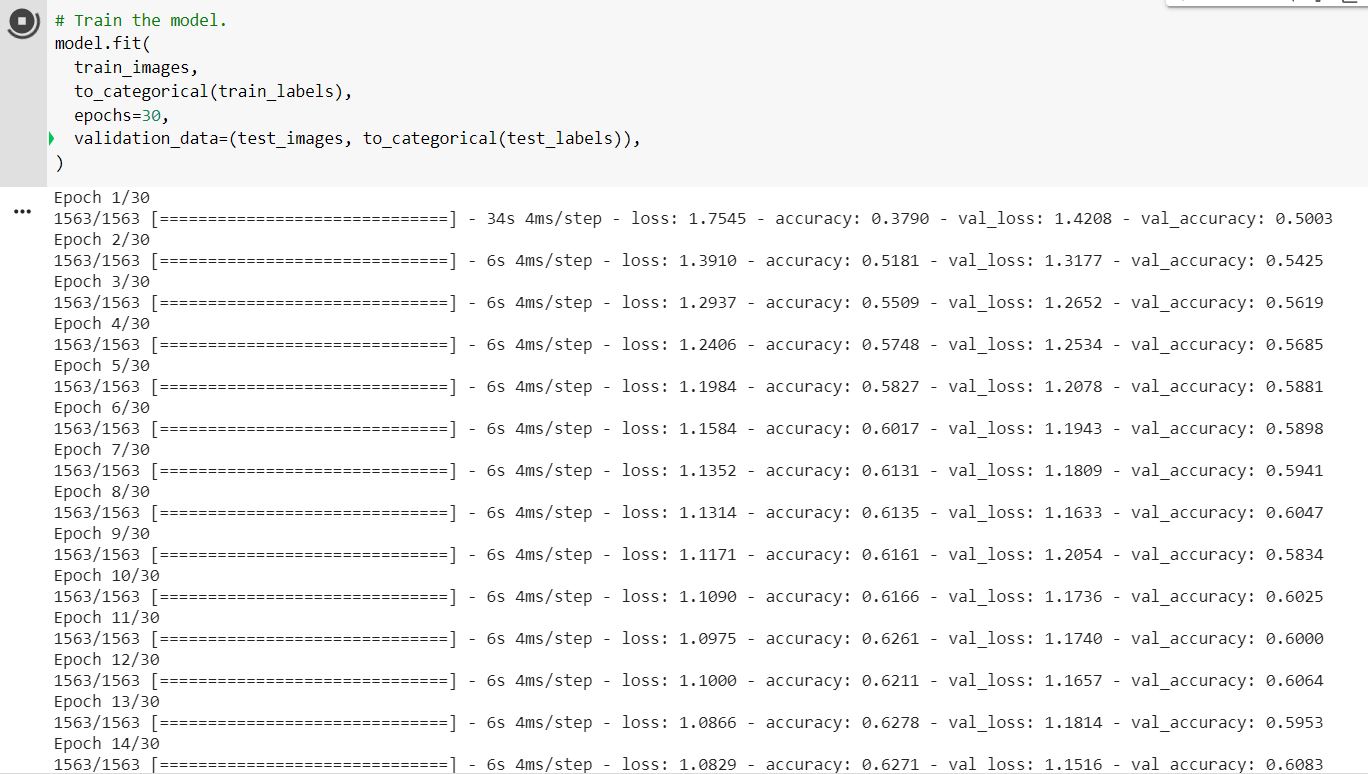
I changed the num\_filters=10 ,filter\_size=7 and pool\_size=5.

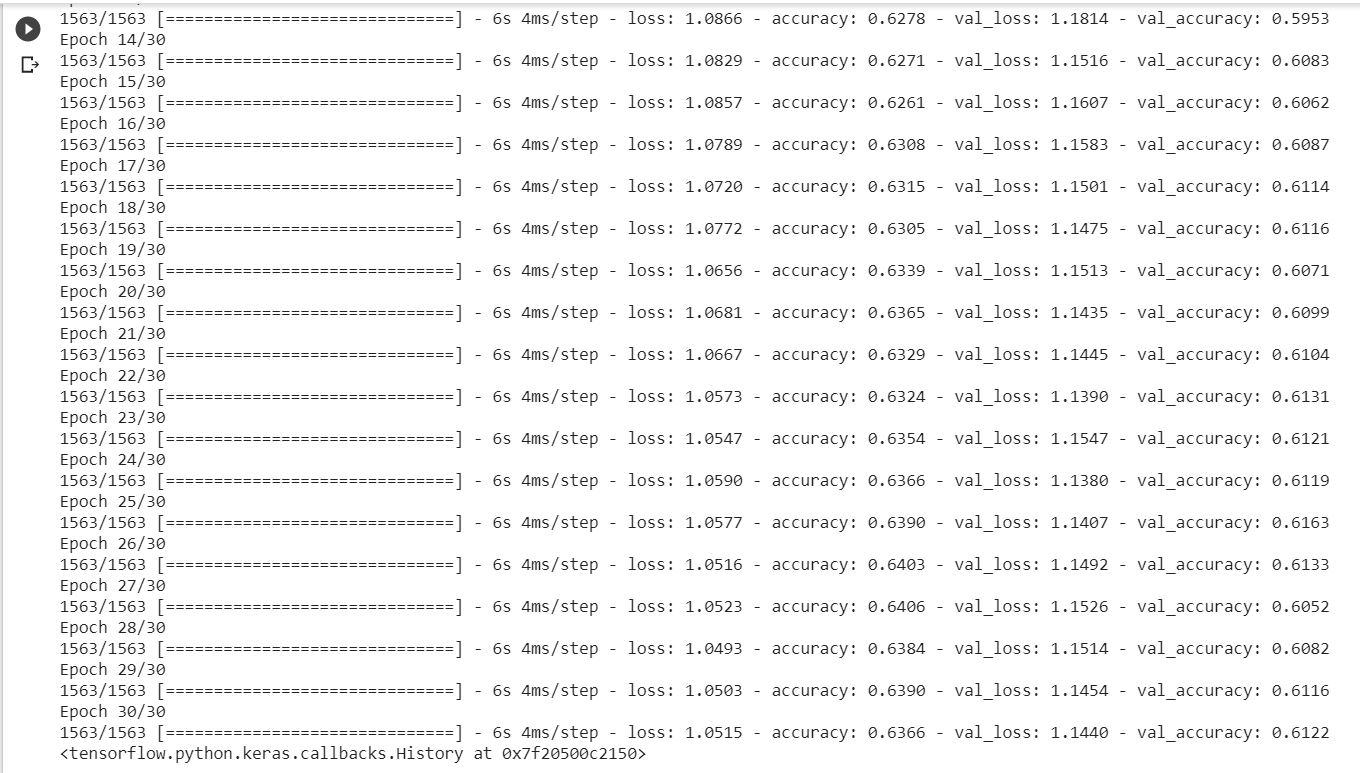


Here I compiled the model.

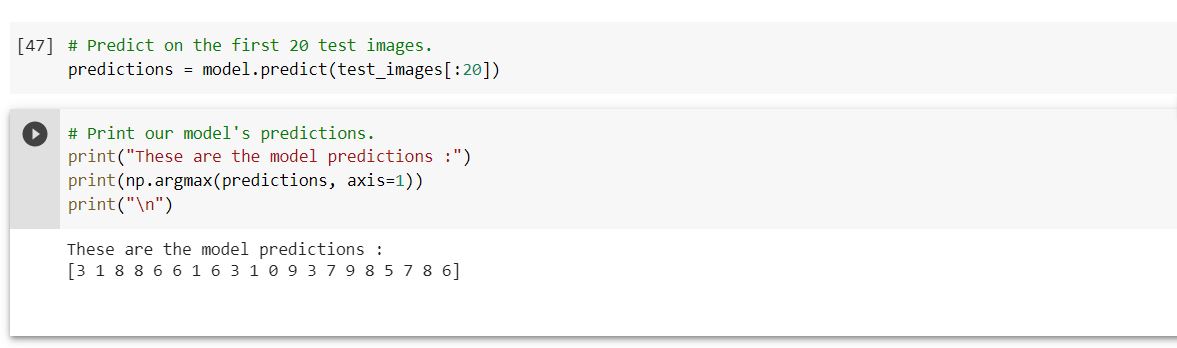


Training the model as shown below:





Predict on the first 20 test images.



Prediction against the ground truths.

