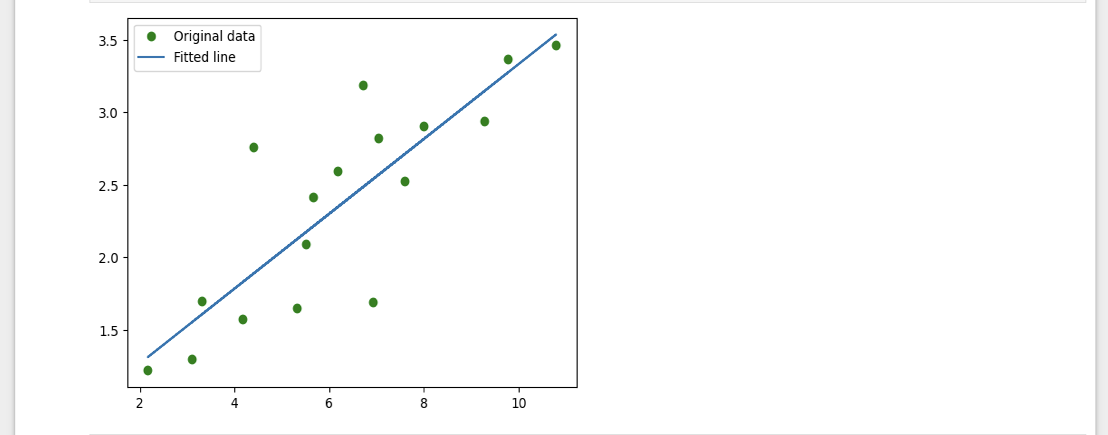
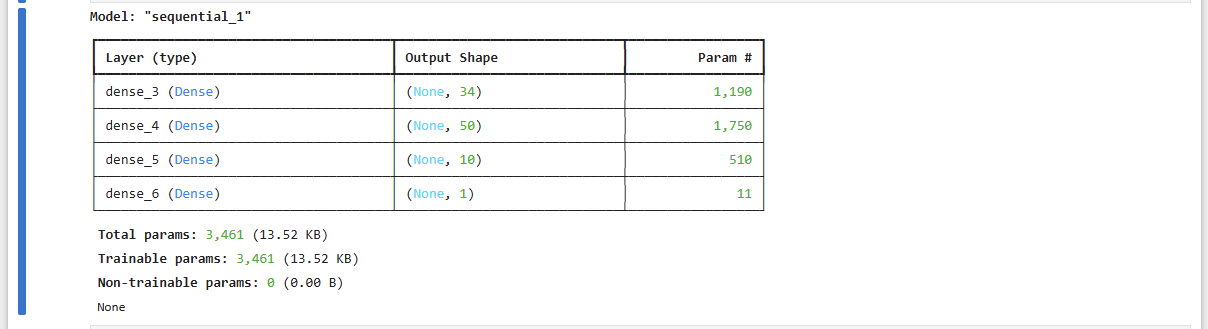
LAB Logbook

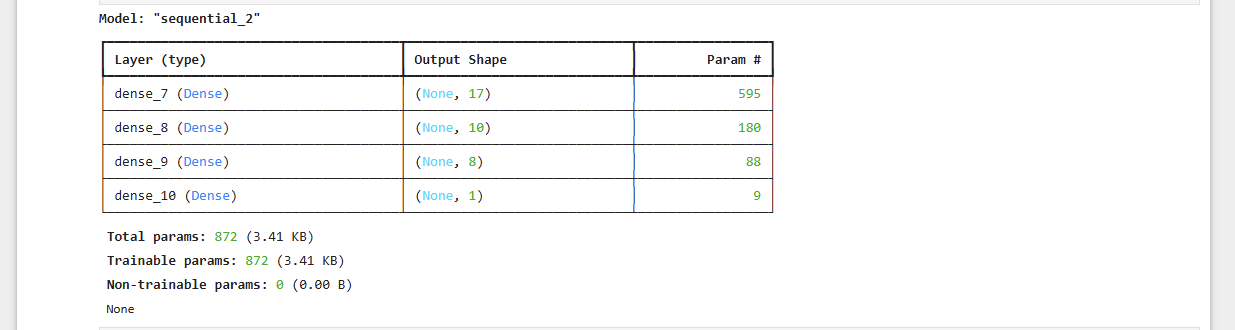
Lab 1



Lab 2

1. Accuracy – “0.948”
2. MLP architectures

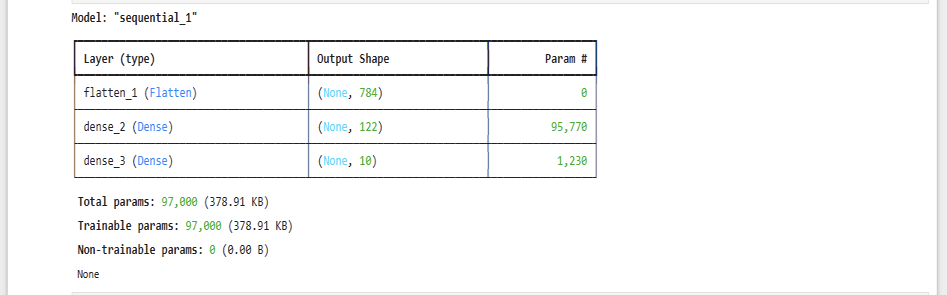


3.The output of the neural network as provided in Task 2 is – “0.733”

Lab 3

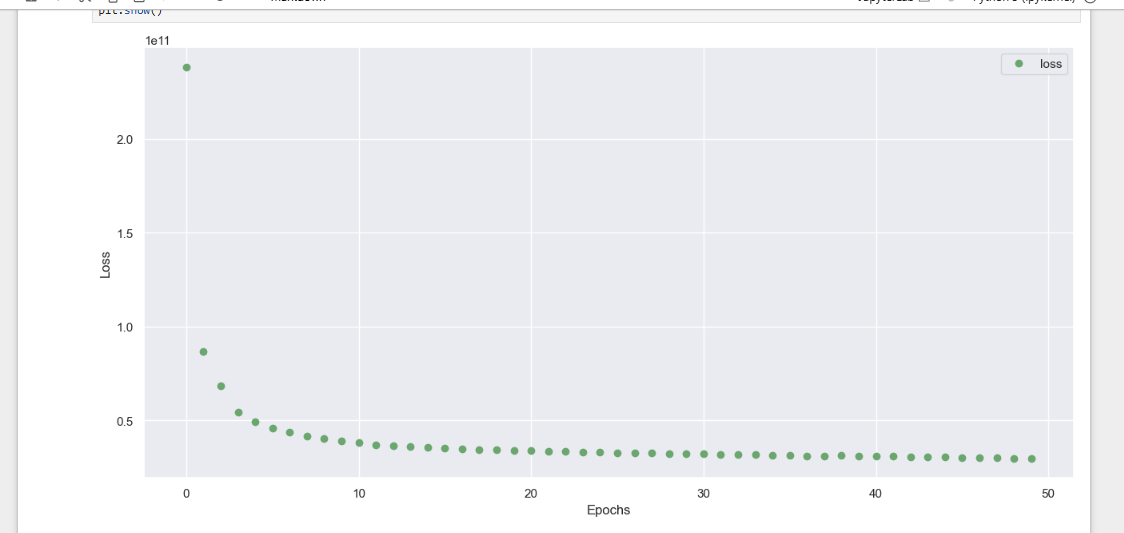
Accuracy – “0.8859000205993652”

model.summary()

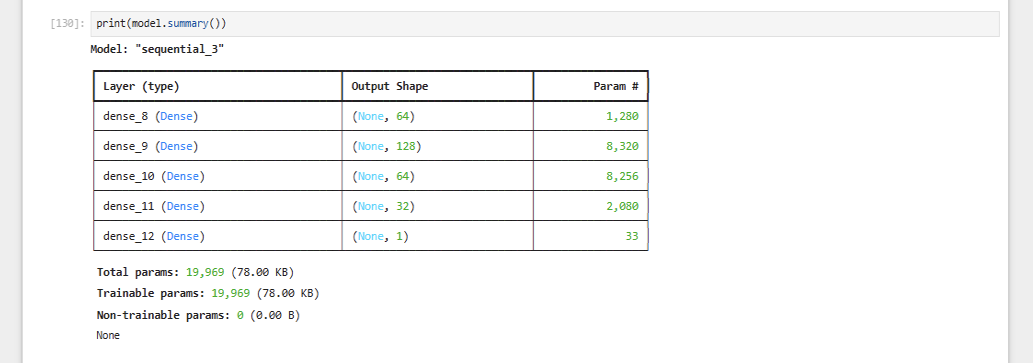


Lab 4

The model's loss after every epoch:

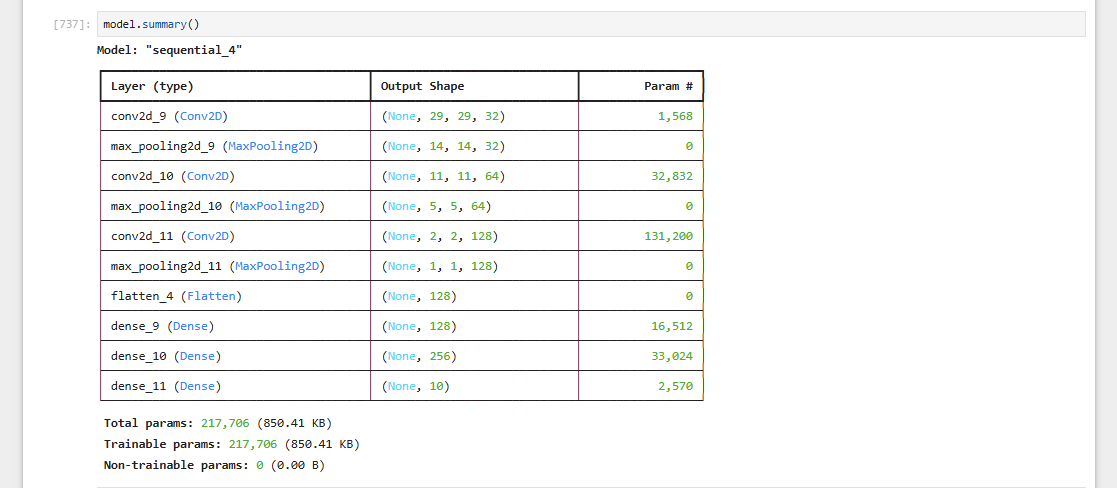


Model Summary:

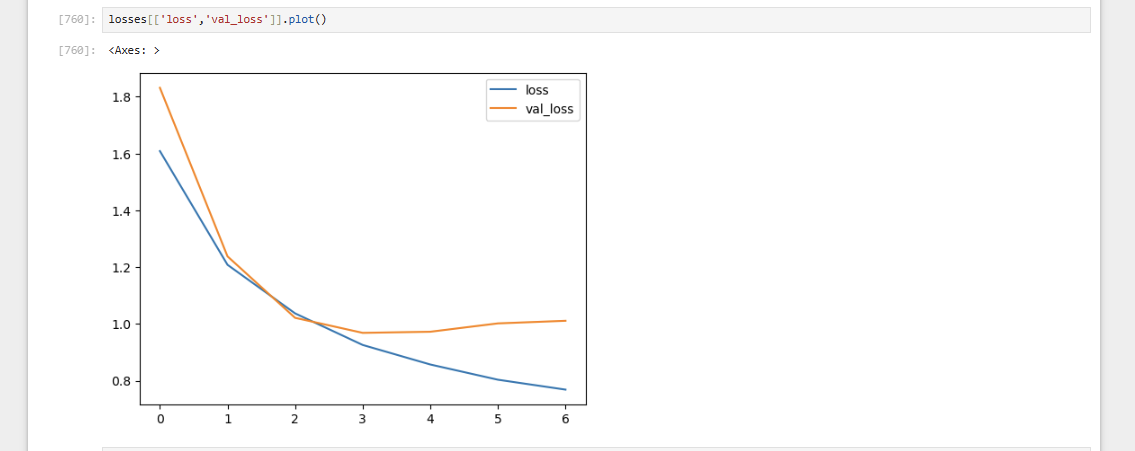


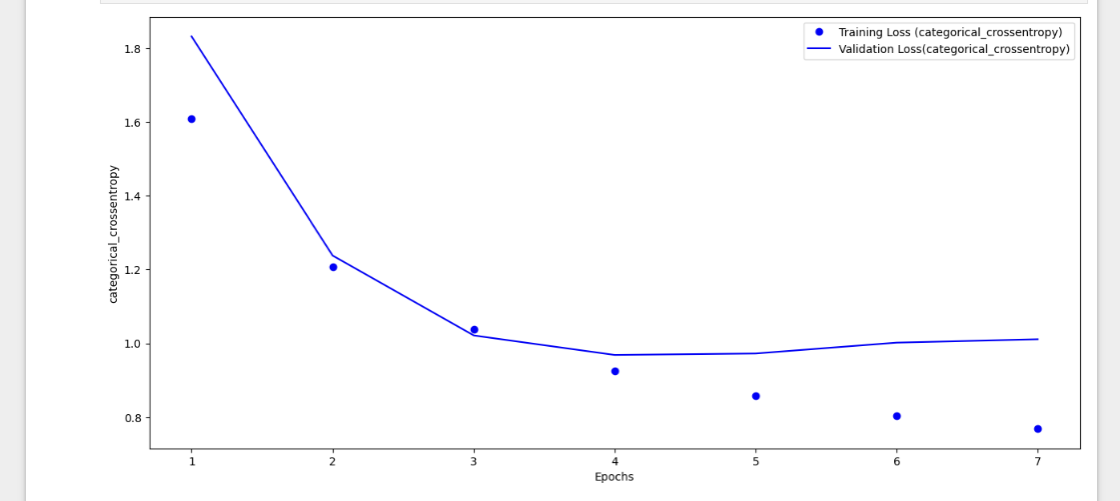
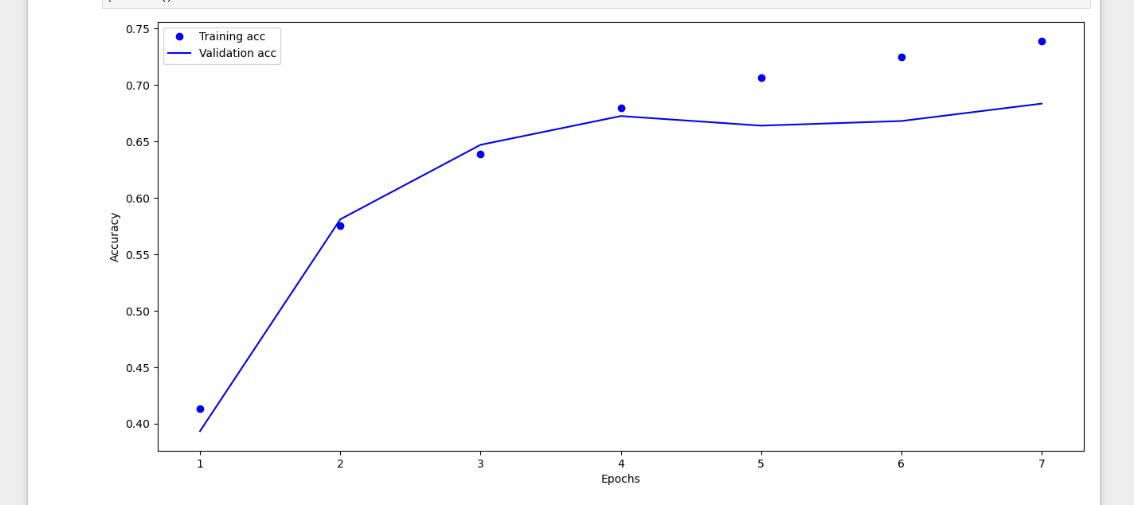
Lab 5

Model Summary:



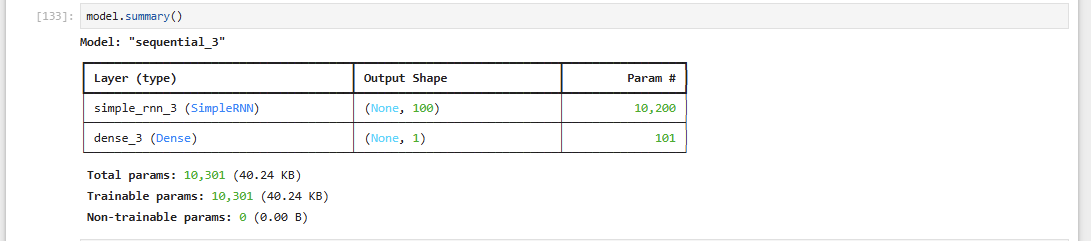
The train loss and validation loss trends

The optimal number of epochs for training your model:



Lab 6

1.Model Summary:



2.early-stop code and history\_2 fit-training-process:

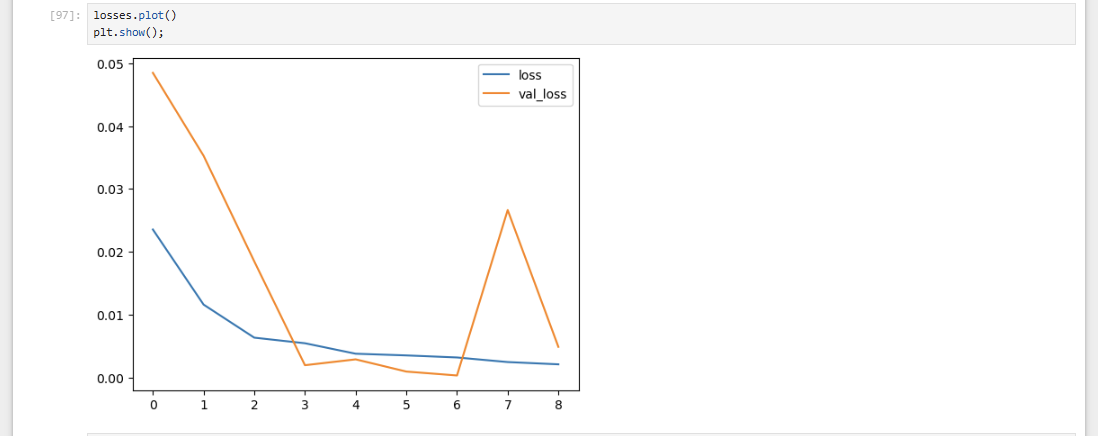
early\_stop = EarlyStopping(mo nitor='val\_loss',patience=2)

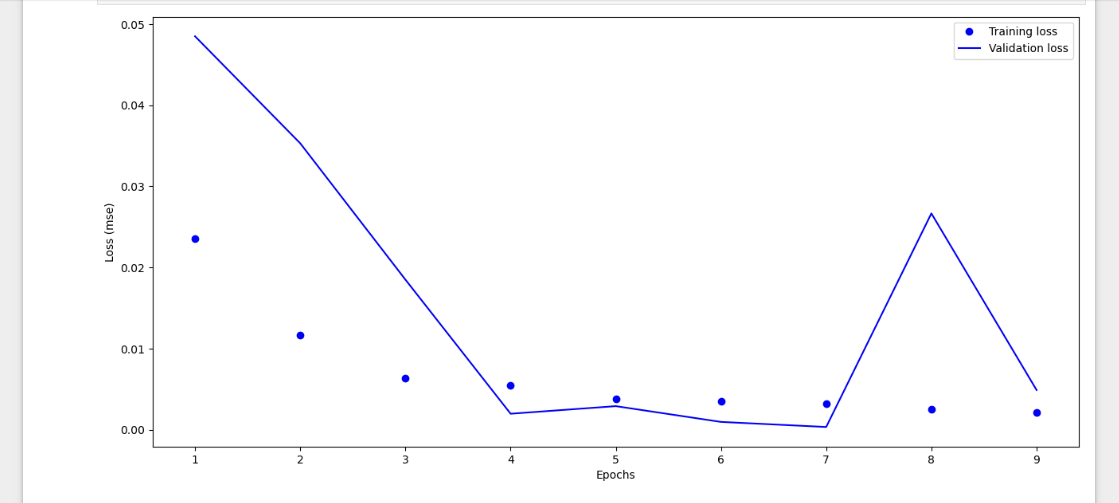
history\_2 = model.fit(generator, epochs=30,

validation\_data=validation\_generator,

callbacks=[early\_stop])

3.The plot of validation and test loss of history\_2:

4.determine the optimal number of epochs for training your model:



Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12