Compare the results of CNN and RNN/LSTM models, for the text classification (same dataset for 2 models to compare) and describe, which model is best for the text classification based on your results :

CNN: Conclusion: AdamOptimizer with filter size(3,4,5), number of filter=128, dropout probability= 0.5 batch size=64, number of epochs =100, have the best accuracy(0.826531)

RNN/LSTM: Iter= 10000, Average Loss= 11.035806, Average Accuracy= 3.80%

There are various designs of the RNN and CNN depends on which dataset we are choosing. According to test result(accuracy and loss) of question1 and2, there is a huge difference (CNN works better with high accuracy and low loss).in performance between them although both were used and CNN is better depends on the problem. When I was running both models, an RNN is a more 'natural' approach, given that text is naturally sequential. However, RNNs are quite slow and fickle to train.