Question 1 (RNN)

(a)

1132: consumers

93: may

358: want

5: to

329: move

51: their
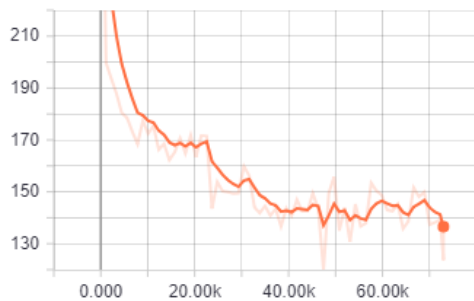
9836: telephones

6: a

326: little

2476: closer

consumers may want to move their telephones a little closer
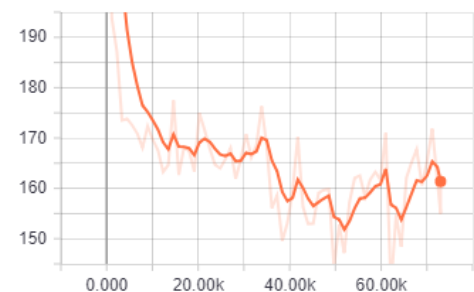
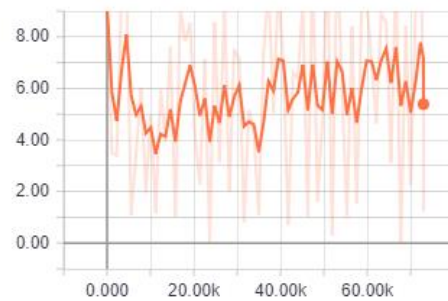(note: I wrote this in python 2.)

(b)

Train/Training_Loss

Valid/Validation_Loss

The model doesn't overfit nor underfit. The training loss keeps decreasing and the validation loss also keeps decreasing before end.

(c)

Test/Test_Loss

The test loss doesn't decrese significantly as the validartion loss and training loss decreases. It means that the model doesn't have a significantly well generalization ability although it doesn't overfit. The test loss stops decreasing after ⅓ of total iterations. It means that the total number of iteration is more than required.

(d)

money for managers value.

midnight in month tomorrow.

strong restructuring investment mental demand profits demand average results automotive growth.

message to mexico.

company 's site from chairman inc.

(e)

north korean american executive airlines laboratory american city <unk> ground.

wall street street street falls.

truth and failed.

california and spokesman and earthquake savings-and-loan and october earthquake wyoming michigan san florida san killing <unk> delegation assembly earthquake.

health care care.