**Homework 3**

1. Network
   1. Network architecture
   2. Learning curve
   3. Training error rate
   4. Validation error rate
2. Training process

The training process was stopped at five different points and the results can be seen below.

1. Comparison between different size of hidden states and sequence length by plotting training loss vs different parameters.
2. Another RNN with LSTM
   1. Network
      1. Network architecture
      2. Learning curve
      3. Training error rate
      4. Validation error rate
   2. Training process

The new configuration was stopped at five different points and the results can be seen below.

* 1. Comparison between RNN with and without LSTM’s

1. Use the RNN or LSTM by priming the model with some input.