**Week 9 – Lab Homework**

In the pre-lab exercises, we ran the cross\_validation function on the variable feature\_sets, which gave the average accuracy for the word feature sets. For your lab homework, run the cross-validation function for the bigram feature sets and for the POS feature sets.

If you have time, run at least one of them for 10 folds instead of five.

For each type of feature function definition (bigram and POS), document the original accuracy you got with just one train/test split and compare it with the cross-validation accuracy that you get with five folds. If you had time to run 10 fold cross-validation(s), identify the cross-validation accuracy with ten folds.

**Homework:**

Submit a report summary that includes the baseline accuracy achieved with the one train/test split and the cross-validation accuracy with five-folds (and with ten folds if attempted).  Include any observations and lessons learned in your report.  In addition to the report summary, upload a copy of the python code you developed as part of this lab.