**ASSIGNMENT #5**

**Analysis :**

**Q2 : The Naïve Bayes Classifier and Support Vector Classifier have been compared on the following basis :**

* *How does the sample size affect each classifier’s performance?*

The performance of both classifiers increases sharply as the sample size increases to a certain point , after that the fluctuation is very subtle.

* *How many samples do you think would be needed for each model for good performance?*

From visual inspection of the graphs of f1\_scores and roc\_auc curves any sample size above 5000 is good for desired performance.

* *How is performance of SVM classifier compared with Naïve Bayes classifier, as the sample size increases?*

SVM classifier outperforms the Naïve Bayes classifier as the sample size increases.