**Evaluate the performance of each of these models. Try to beat the Accuracy obtained in the tutorial**.

* Logistic Regression
* K-Nearest Neighbors (K-NN)
* Support Vector Machines (SVM)
* Kernel SVM
* Naïve Bayes
* Decision Tree classification
* Random Forest classification

# **PERFORMANCE Measurement**:

But remember, Accuracy is not enough, so you should also look at other performance metrics like

* Precision (measuring exactness)
* Recall (measuring completeness)
* F1 Score (compromise between Precision and Recall).

Please find below these metrics formulas (TP = # True Positives, TN = # True Negatives, FP = # False Positives, FN = # False Negatives):

Accuracy = (TP + TN) / (TP + TN + FP + FN)

Precision = TP / (TP + FP)

Recall = TP / (TP + FN)

F1 Score = 2 \* Precision \* Recall / (Precision + Recall)

3. Try even other classification models that we haven't covered in Part 3 - Classification. Good ones for NLP include:

* CART
* C5.0
* Maximum Entropy