**Accuracies for Perceptron**:

with Stopping Words:

0.8914405010438413 learning rate = 0.05 , Number of Iterations = 5

0.8747390396659708 learning rate = 0.10 , Number of Iterations = 10

0.9081419624217119 learning rate = 0.15 ,Number of Iterations = 15

0.9123173277661796 learning rate = 0.20 , Number of Iterations = 20

0.8997912317327766 learning rate = 0.25 , Number of Iterations = 25

0.8997912317327766 learning rate = 0.30 , Number of Iterations = 30

0.8997912317327766 learning rate = 0.35 , Number of Iterations = 35

0.8997912317327766 learning rate = 0.40 , Number of Iterations = 40

0.8997912317327766 learning rate = 0.45 , Number of Iterations = 45

0.906054279749478 learning rate = 0.50 , Number of Iterations = 50

0.906054279749478 learning rate = 0.55 , Number of Iterations = 55

0.906054279749478 learning rate = 0.60, Number of Iterations = 60

0.906054279749478 learning rate = 0.65 , Number of Iterations = 65

0.906054279749478 learning rate = 0.70 , Number of Iterations = 70

0.906054279749478 learning rate = 0.75 , Number of Iterations = 75

0.906054279749478 learning rate = 0.80 , Number of Iterations = 80

0.906054279749478 learning rate = 0.85 , Number of Iterations = 85

0.906054279749478 learning rate = 0.90 , Number of Iterations = 90

0.906054279749478 learning rate = 0.95 , Number of Iterations = 95

0.906054279749478 learning rate = 1 , Number of Iterations = 100

without Stopping Words:

0.824634655532359 learning rate = 0.05 , Number of Iterations = 5

0.8517745302713987 learning rate = 0.10 , Number of Iterations = 10

0.9018789144050104 learning rate = 0.15 ,Number of Iterations = 15

0.9144050104384134 learning rate = 0.20 , Number of Iterations = 20

0.9018789144050104 learning rate = 0.25 , Number of Iterations = 25

0.9018789144050104 learning rate = 0.30 , Number of Iterations = 30

0.9018789144050104 learning rate = 0.35 , Number of Iterations = 35

0.9018789144050104 learning rate = 0.40 , Number of Iterations = 40

0.9018789144050104 learning rate = 0.45 , Number of Iterations = 45

0.9206680584551148 learning rate = 0.50 , Number of Iterations = 50

0.9206680584551148 learning rate = 0.55 , Number of Iterations = 55

0.9206680584551148 learning rate = 0.60, Number of Iterations = 60

0.9206680584551148 learning rate = 0.65 , Number of Iterations = 65

0.9206680584551148 learning rate = 0.70 , Number of Iterations = 70

0.9206680584551148 learning rate = 0.75 , Number of Iterations = 75

0.9206680584551148 learning rate = 0.80 , Number of Iterations = 80

0.9206680584551148 learning rate = 0.85 , Number of Iterations = 85

0.9206680584551148 learning rate = 0.90 , Number of Iterations = 90

0.9206680584551148 learning rate = 1 , Number of Iterations = 100

The Accuracy of Naïve Bayes is 89% on Test set whereas the accuracy for perceptron on test set is 90%

with stop words and 92% without stop words. Therefore, perceptron seems to be better than Naïve Bayes

in terms of performance. The perceptron training rule is effective in achieving the better accuracy.