**Analysis of NN (Q 5&6)**

**Q 5:**

**Testing on Pen Dataset**

Maximum Accuracy: 0.908805031447   
Average Accuracy: 0.899828473413   
Standard Deviation: 0.0083593673562

**Testing on Car Dataset**

Maximum Accuracy: 0.884816753927   
Average Accuracy: 0.868979057592   
Standard Deviation: 0.0116293436027

**Q 6:**



The neural network can’t make any right prediction with 0 perceptrons. And the accuracy increases with increasing number of perceptrons. I don’t see the test accuracy go down considerably anywhere on this plot, so there is no overfitting. Also, we should use a simpler model to explain our data rather than a complex model.



The neural network can still make decent predictions with 0 perceptrons. And the accuracy increases with increasing number of perceptrons. I don’t see the test accuracy go down considerably anywhere on this plot, so there is no overfitting. Also, we should use a simpler model to explain our data rather than a complex model.