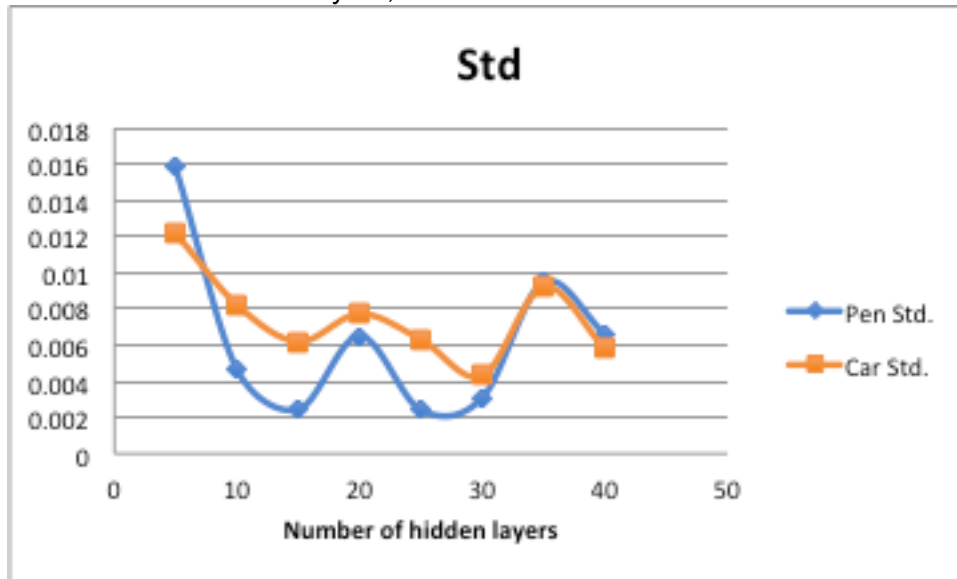Anh Duong, Nguyen

Q5:
Car avg, max, std.: 0.86243455497382193, 0.8717277486910995, 0.0089005235602094088
Pen avg, max, std.: 0.90405946255002867, 0.9105202973127502, 0.0038465153096750647
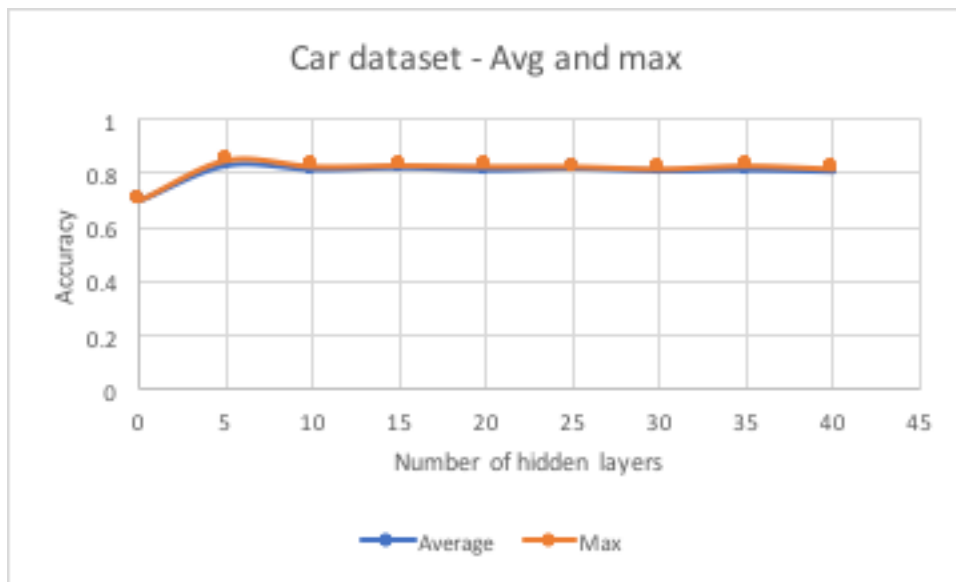
Q6:
Generally speaking, increasing number of hidden layers increases the accuracy and decreases the standard deviation, making the result more reliable. In the case of car dataset, the accuracy increases until about 5 layers, then decreases a little bit.

Car dataset

#ofHiddenLayers	Average	Max	Std.
0	0.702225131	0.702225131	0
5	0.831151832	0.85078534	0.012243643
10	0.815968586	0.827879581	0.008220062
15	0.822643979	0.831151832	0.006194848
20	0.814136126	0.827879581	0.007721404
25	0.820287958	0.827225131	0.006312647
30	0.811518325	0.818717277	0.004301486
35	0.814267016	0.829842932	0.009203349
40	0.809162304	0.818717277	0.005803612

Car dataset - Avg and max

Pen dataset

#ofHiddenLayers	Average	Max	Pen Std.
0	0	0	0
5	0.825843339	0.841337907	0.015937929
10	0.888164666	0.893939394	0.0046534
15	0.903887936	0.907947399	0.002448555
20	0.896912521	0.9053745	0.006500433
25	0.904802744	0.907089766	0.002419005
30	0.902744425	0.90651801	0.003081119
35	0.896283591	0.907089766	0.009464925
40	0.902001144	0.909090909	0.006614593

Pen dataset - Avg and max