Programming Exercise 4:

Multi-class Classification and Neural Networks

Machine Learning

Student Name:

PeopleSoft ID:

Question (1) **(40 points)**

Please compute the minimum cost found by **fmincg** function for all digits:

(Please list the answer in order: 1, 2, 3 ... 9, 0)

Minimum cost =

[ ]

Question (2) **(30 points)**

Please compute the training set accuracy using one-vs-all logistic regression method:

Training set accuracy =

Question (3) **(40 points)**

Please compute the training set accuracy with neural networks:

Training set accuracy =