```
In [15]: runfile('C:/Users/all/Documents/5334-DM/Quiz2/submittal/Quiz2-ProbB2.py',
wdir='C:/Users/all/Documents/5334-DM/Quiz2/submittal')
Extracting MNIST_data/train-images-idx3-ubyte.gz
Extracting MNIST_data/train-labels-idx1-ubyte.gz
Extracting MNIST_data/t10k-images-idx3-ubyte.gz
Extracting MNIST_data/t10k-labels-idx1-ubyte.gz
accuracy: 0.0844
cross_entropy_train: 19.0426, cross_entropy_test: 17.699
accuracy: 0.5668
cross_entropy_train: 2.90082, cross_entropy_test: 2.79337
accuracy: 0.6767
cross_entropy_train: 2.16232, cross_entropy_test: 1.88153
accuracy: 0.7286
cross_entropy_train: 1.68428, cross_entropy_test: 1.52829
accuracy: 0.7553
cross_entropy_train: 1.59286, cross_entropy_test: 1.33526
accuracy: 0.7752
cross_entropy_train: 1.05547, cross_entropy_test: 1.21103
accuracy: 0.7896
cross_entropy_train: 0.936425, cross_entropy_test: 1.12507
accuracy: 0.8015
cross_entropy_train: 0.702731, cross_entropy_test: 1.05869
accuracy: 0.8121
cross_entropy_train: 0.519842, cross_entropy_test: 1.00705
accuracy: 0.8177
cross_entropy_train: 1.04673, cross_entropy_test: 0.97306
accuracy: 0.8215
cross_entropy_train: 0.692987, cross_entropy_test: 0.934717

In [16]:
```