```
In [27]: runfile('C:/Users/all/Documents/5334-DM/Quiz2/submittal/Quiz2-ProbB1-last.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: 0.0787
cross_entropy_train: 30.0043, cross_entropy_test: 28.0685
accuracy: 0.5822
cross_entropy_train: 2.82259, cross_entropy_test: 2.9853
accuracy: 0.7085
cross_entropy_train: 1.99917, cross_entropy_test: 1.96091
accuracy: 0.7597
cross_entropy_train: 1.40341, cross_entropy_test: 1.57991
accuracy: 0.7871
cross_entropy_train: 1.20384, cross_entropy_test: 1.36689
accuracy: 0.8074
cross_entropy_train: 1.17935, cross_entropy_test: 1.22677
accuracy: 0.8211
cross_entropy_train: 1.13341, cross_entropy_test: 1.12755
accuracy: 0.8309
cross_entropy_train: 0.741847, cross_entropy_test: 1.05093
accuracy: 0.8394
cross_entropy_train: 0.73216, cross_entropy_test: 0.991166
accuracy: 0.8472
cross_entropy_train: 0.832436, cross_entropy_test: 0.943568
0.852
```

In [28]: