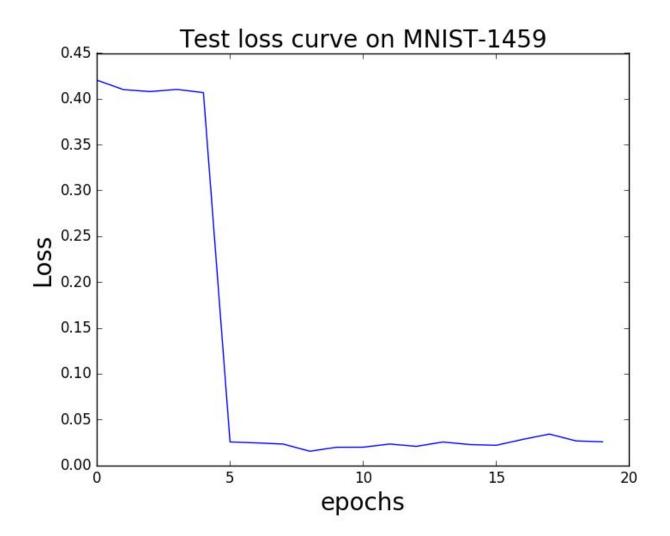
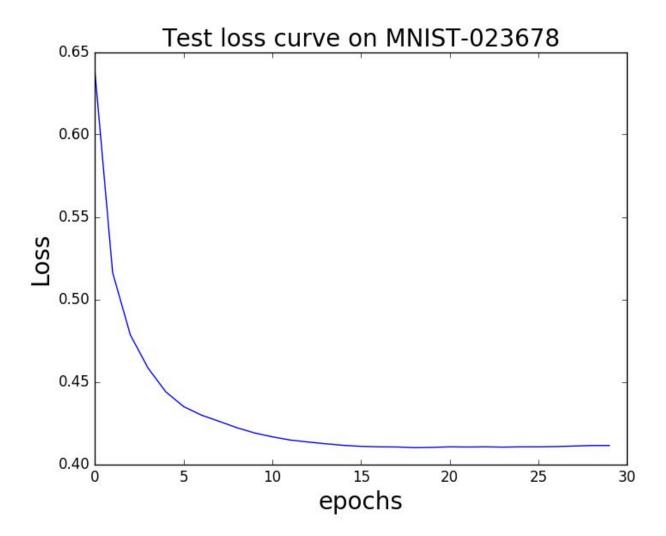
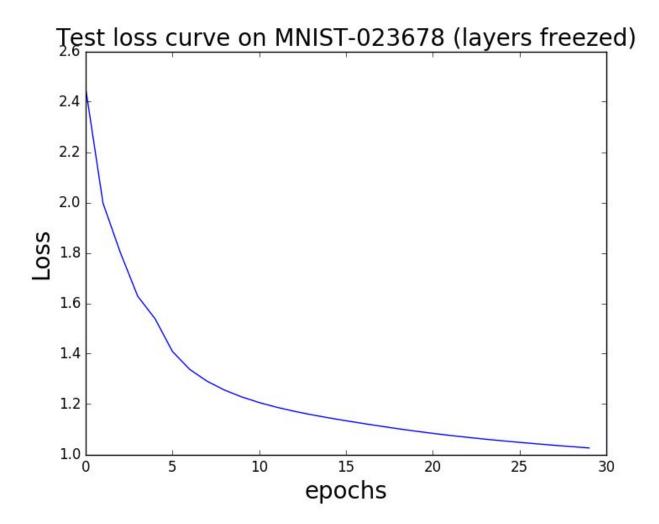
# CSE - 527 Homework 6

Submitted by - Naveen Kumar Rai Student Id - 111207633



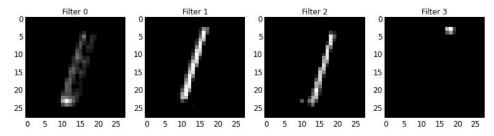




# Filter maps and activations

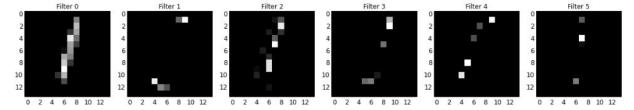
```
import math
with tf.Session() as sess:
    saver.restore(sess, "./my_model_1459.ckpt")
    getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d/Relu:0"), X_1459_test[0])
    #getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d_2/Relu:0"), X_1459_test[0])
#getActivations(tf.get_default_graph().get_tensor_by_name("pool3/max_pooling2d/MaxPool:0"), X_1459_test[0])
```

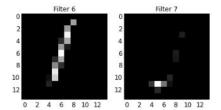
INFO:tensorflow:Restoring parameters from ./my model 1459.ckpt



```
import math
with tf.Session() as sess:
    saver.restore(sess, "./my_model_1459.ckpt")
    #getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d/Relu:0"), X_1459_test[0])
    getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d_2/Relu:0"), X_1459_test[0])
    #getActivations(tf.get_default_graph().get_tensor_by_name("pool3/max_pooling2d/MaxPool:0"), X_1459_test[0])
```

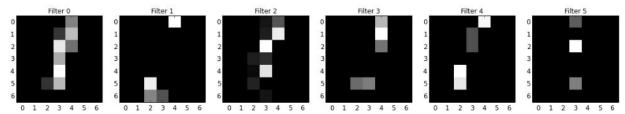
INFO:tensorflow:Restoring parameters from ./my model 1459.ckpt

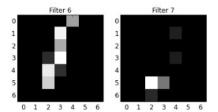




```
import math
with tf.Session() as sess:
    saver.restore(sess, "./my_model_1459.ckpt")
    #getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d/Relu:0"), X_1459_test[0])
    #getActivations(tf.get_default_graph().get_tensor_by_name("conv/conv2d_2/Relu:0"), X_1459_test[0])
    getActivations(tf.get_default_graph().get_tensor_by_name("pool3/max_pooling2d/MaxPool:0"), X_1459_test[0])
```

INFO:tensorflow:Restoring parameters from ./my\_model\_1459.ckpt

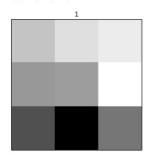


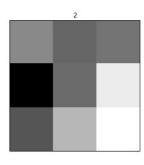


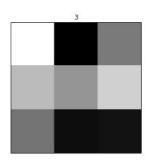
### Visualize the convolution kernels

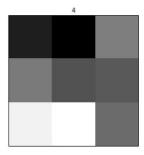
```
: with tf.Session() as sess:
    saver.restore(sess, "./my_model_1459.ckpt")
    plotConvLayerWeights("conv2d", sess)
    #plotConvLayerWeights("conv2d_1", sess)
```

INFO:tensorflow:Restoring parameters from ./my\_model\_1459.ckpt
(3, 3, 1, 4)









#### Visualize the convolution kernels



# Show the Execution Graph

```
reset_graph()
# restore the graph of 1459
restore_saver = tf.train.import_meta_graph("./my_model_1459.ckpt.meta")
show_graph(tf.get_default_graph())
```

