Softmax (Multiclass) Classification
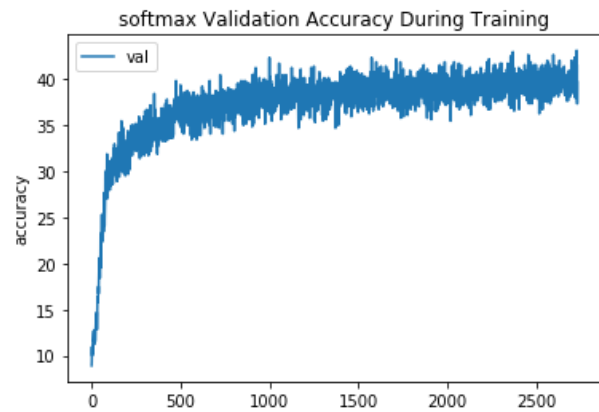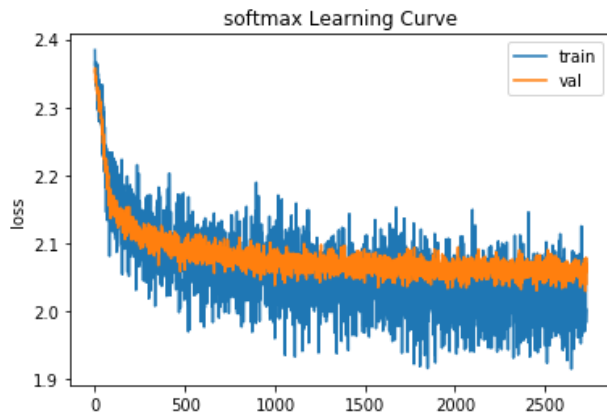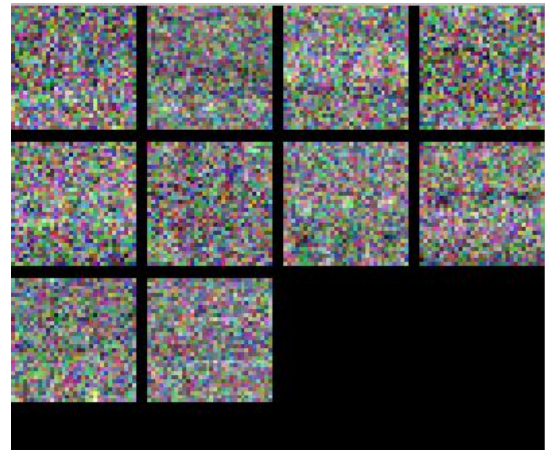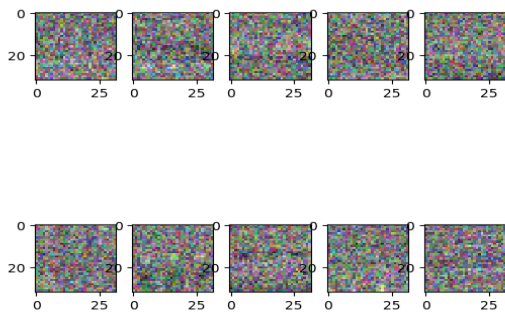
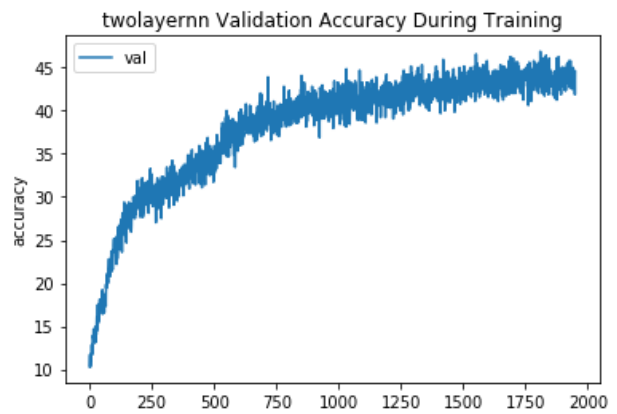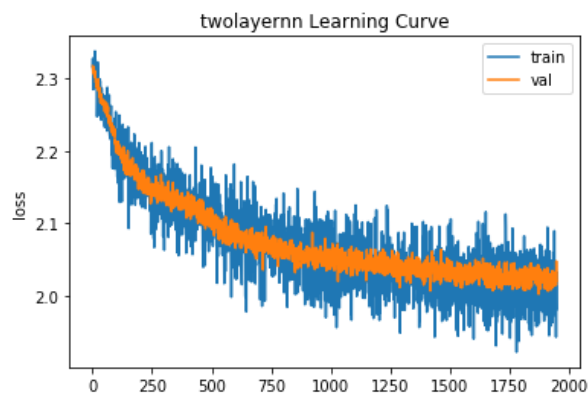✓ *Softmax Learning Curve and Validation Accuracy plots -*

✓ *Softmax Best Weight – parameter - Plot*
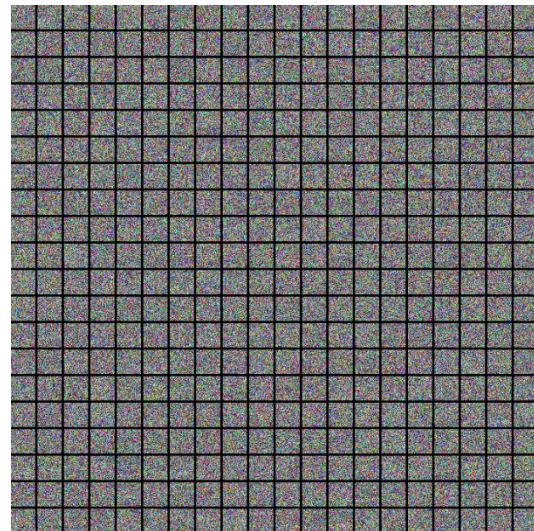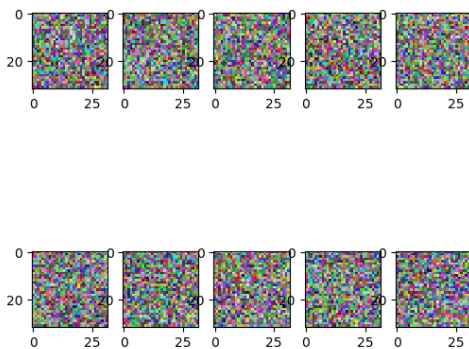

✓ Hyperparameters tuned -> epochs, weight-decay, momentum, batch-size, learning rate
✓ Overall test Accuracy obtained on the dataset is -> 40%
✓ **Refer the Best Parameters and Logs from softmax.log**

Two-layer (Multiclass) Classification

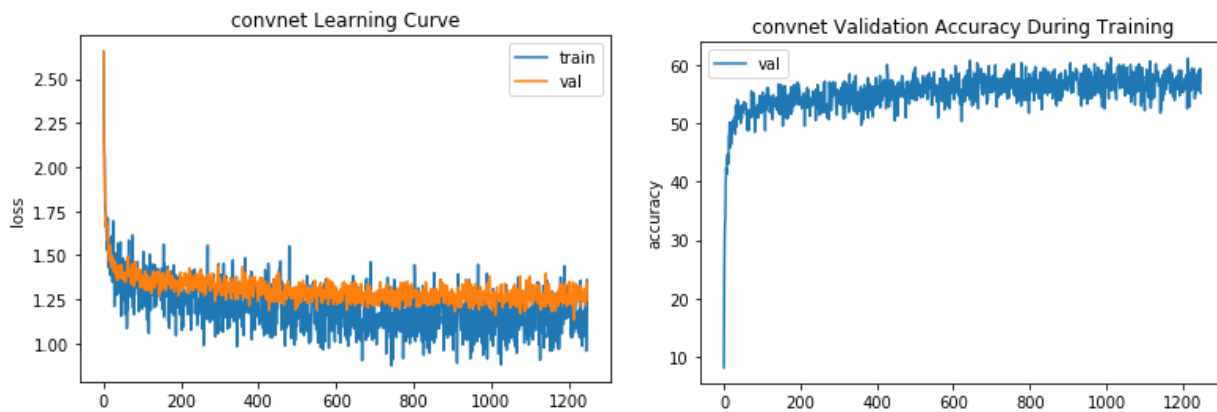✓ *Two-Layer Learning Curve and Validation Accuracy plots -*

✓ *Two-Layer Best Weight – parameter – Plot*

✓ Hyperparameters tuned -> hidden, dim., epochs, weight-decay, momentum, batch-size, learning rate
✓ Overall test Accuracy obtained on the dataset is -> 43%
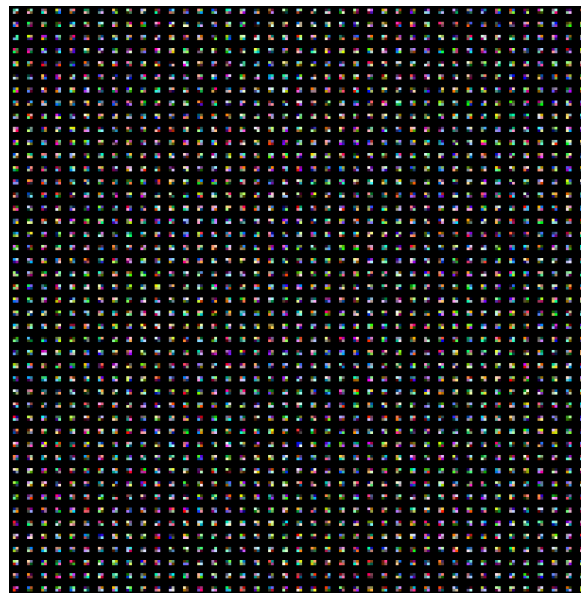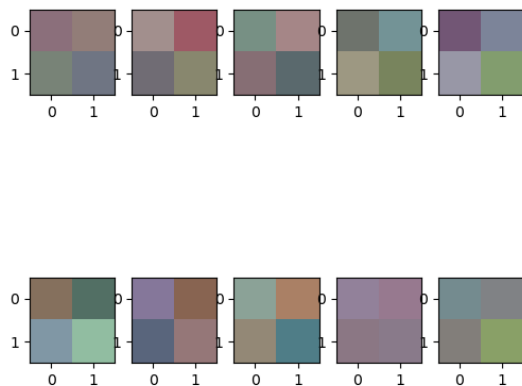✓ **Refer the Best Parameters and Logs from twolayer.log**

Convolutional Neural Network

✓ *CNN Learning Curve and Validation Accuracy plots -*
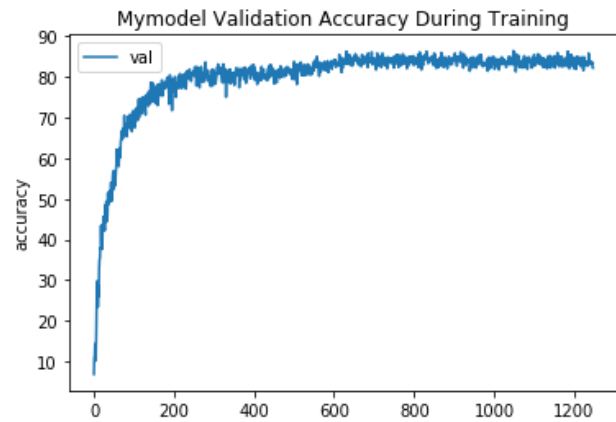

✓ *CNN Best Weight – parameter – Plot*

Kernel Size=2 *(can be seen from the figure below)*

✓ Hyperparameters tuned -> Kernel size, hidden, dim., epochs, weight-decay, momentum, batch-size, learning rate
✓ Overall test Accuracy obtained on the dataset is -> 56%
✓ **Refer the Best Parameters and Logs from convnet.log**

MyModel Neural Network

✓ *CNN Learning Curve and Validation Accuracy plots -*

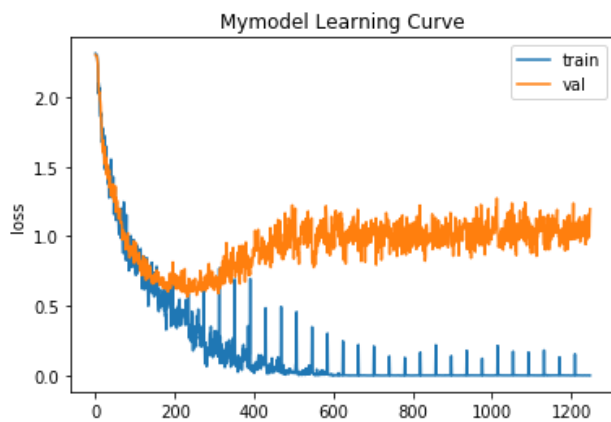
✓ *CNN Best Weight – parameter – Plot*

Kernel Size=3*(can be seen from the figure below)*

✓ Hyperparameters tuned -> Kernel size, hidden, dim., epochs, weight-decay, momentum, batch-size, learning rate
✓ Overall test Accuracy obtained on the dataset is -> 81%
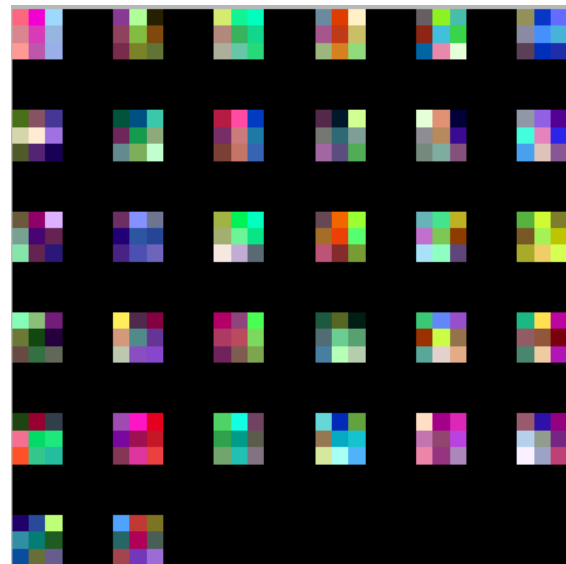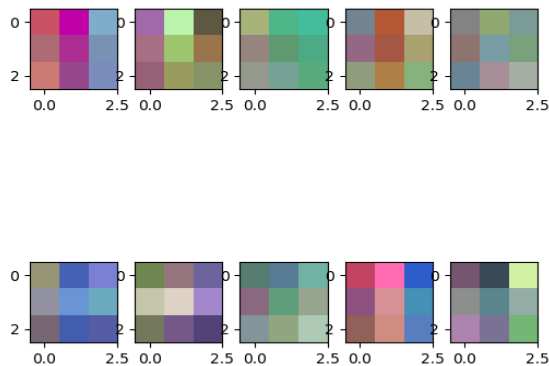✓ **Refer the Best Parameters and Logs from mymodel.log**