

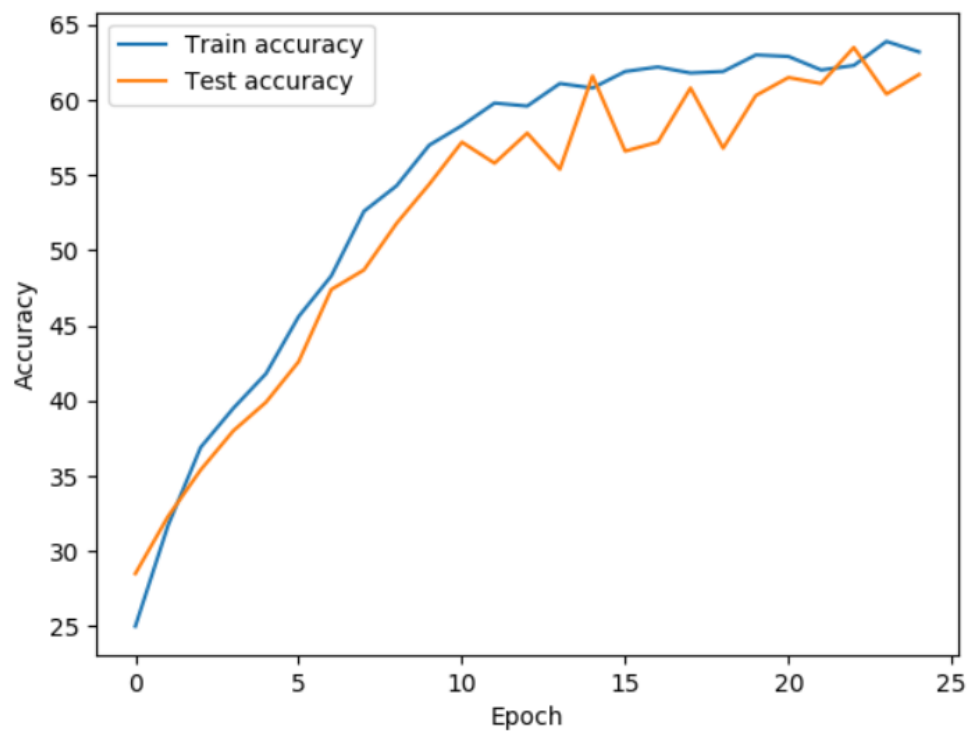
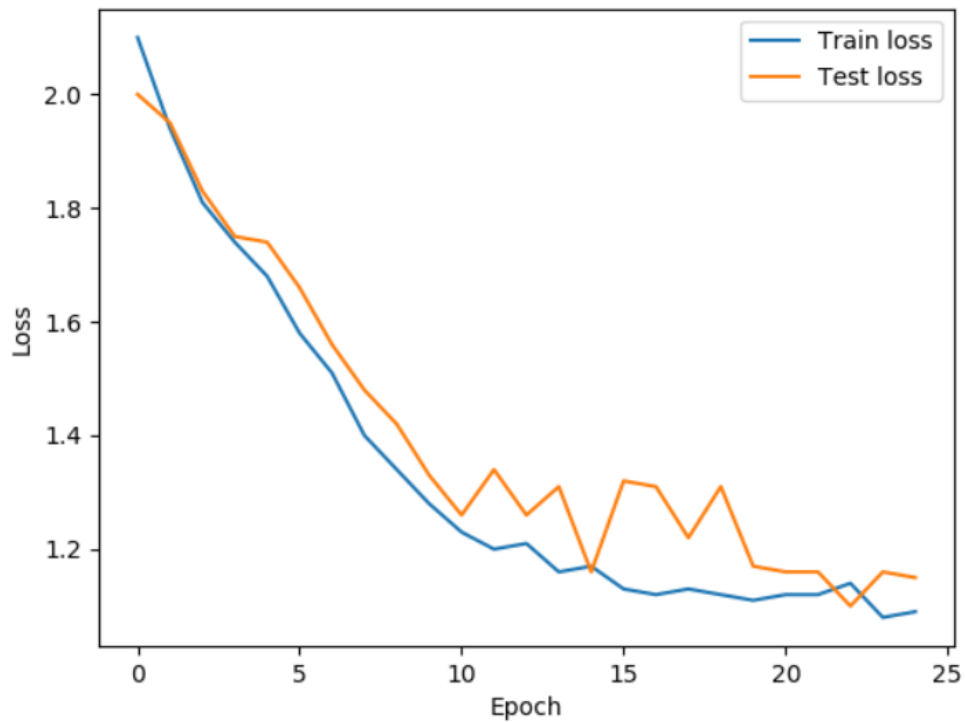
Link to github repo: <https://github.com/weaf34/assignment3>

Architecture used: for this assignment, ResNet-18 architecture was used (from torchvision library).

Final train accuracy: 62.3% by saved model after 23 epochs.

Final test accuracy: 63.5% by saved model after 23 epochs.

Graphs of losses and accuracy:



Loss function: Cross-entropy loss.

Learning rate: initial learning rate is 0.01.

Learning rate scheduler: Cosine annealing scheduler.

Optimizer: Adam.

Epochs: 25 epochs of training.

Train size: 10000 samples, 1000 samples per class; 64 samples per batch during training.

Test size: 10000 samples, 1000 samples per class; 128 samples per batch during testing.

Data dimension: each image was resized to 128x128. Each image is color, so each image represented as 3-D array of size 3x128x128.

Number of parameters of model: the model has 11181642 parameters, of them 11172234 are trainable parameters.