We have studied various preprocessing and regularization techniques in the class.

① Your task is to apply these techniques in the code of Lab 3.

② Analyze the performance of adding these small techniques individually as well as in combination.

    ⓐ Batch Norm. Only

    ⓑ Data Augmentation Only

    ⓒ Dropout Only

    ⓓ Batch Norm + Data Augmentor.

    ⓔ Batch Norm + Drop out

    ⓕ Data Augmentation + Dropout

    ⓖ Batch Norm + Dropout + Data Augmentation.

③ Make a detailed report on the performance of these in the network.

Reference libraries in Pytorch :—

Dropout → https://pytorch.org/docs/stable/generated/torch.nn.Dropout.html

Augmentations → https://pytorch.org/vision/stable/transforms.html

Batch Normalization → https://pytorch.org/docs/stable/generated/torch.nn.BatchNorm2d.html