Home Work 3

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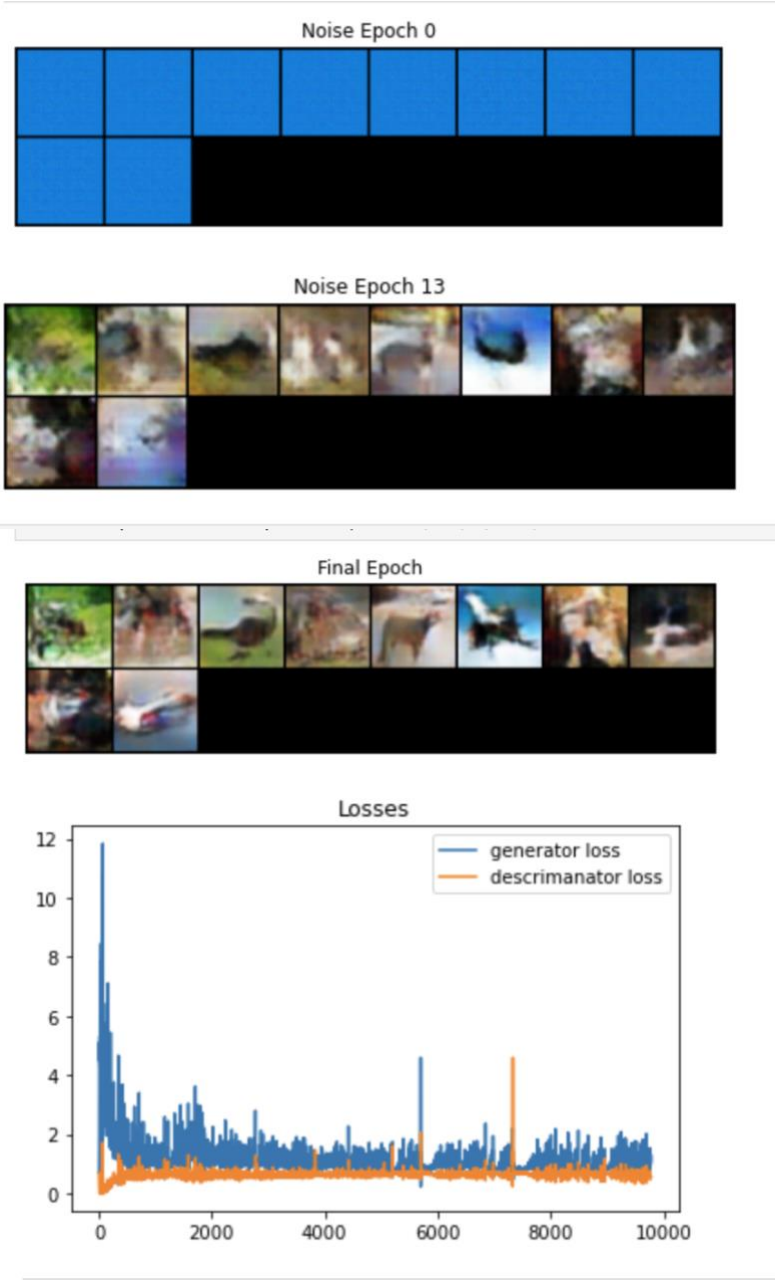
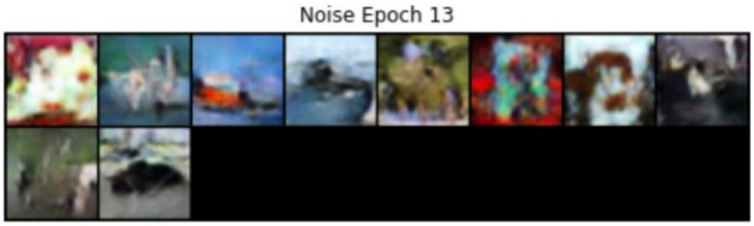
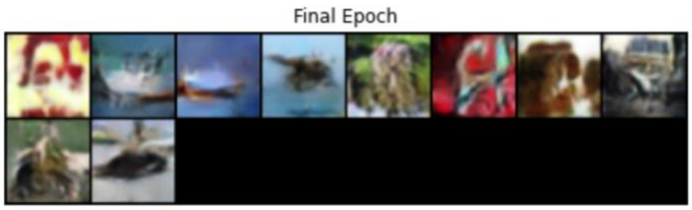
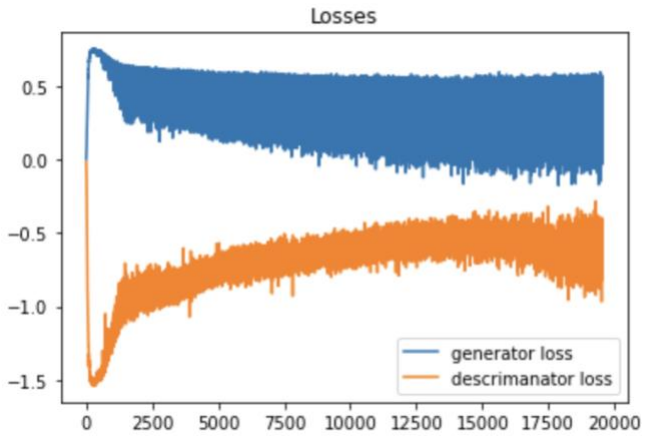
https://github.com/DnyaneshMarne/Deep_Learning



Above screenshots show DCGAN results of 10 images for different epochs.
Total epochs are 25 low due to too much time taken by model and frequent disconnections on palmetto cluster while training.







Above screen shots are of WGAN of 10 images also for 25 epochs.

Observations:
WGAN took way too much time than DCGAN but solves the vanishing gradient descent problem. Both models use convolution blocks and has similar structure but in WGAN loss function is adjusted and has a sigmoid function. DCGAN is simple than WGAN and it is tuned to generate the images. And WGAN focuses on weight distribution within the data.

ACGAN- The code can be found in the repository but while training I kept receiving memory allocation error I tried clearing the cache but problem still persisted.