Lab 3 Report

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# Task 1

Alexnet Architecture

A screen shot of a computer screen

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A screen shot of a computer

Description automatically generated

Final accuracy

A screenshot of a computer

Description automatically generated

A graph of a training loss

Description automatically generated

A graph of a training curve

Description automatically generated

# Task 2

## Cross Entropy Loss

A graph of a training loss

Description automatically generated

A graph of a training curve

Description automatically generated

## MSE Loss

A graph with blue lines

Description automatically generated

A graph with blue lines

Description automatically generated

The loss is lesser in MSE but the accuracy is greater in CrossEntropyLoss.

## 4 convoltion layers

A graph with blue lines

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A graph with a line

Description automatically generated

## 2 convolution layers

A graph with blue lines

Description automatically generated

A graph with blue lines

Description automatically generated

The accuracy decreases with lesser number of convolution layers.

## Using Relu

A graph of a training loss

Description automatically generated

A graph of a training curve

Description automatically generated

## Tanh

A graph with blue lines

Description automatically generated

A graph with blue lines

Description automatically generated

Tanh has a lesser accuracy than ReLU.

## 2 FC Layers

A graph with blue lines

Description automatically generated

A graph of a training curve

Description automatically generated

## 1 FC Layer

A graph of a training loss

Description automatically generated

A graph of a training curve

Description automatically generated

Not a very significant change by altering FC Layers.