Lab 3

1. Mnist

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| Name | Test Loss | Test Accuracy |
| SGD | 0.0791 | 0.9846 |
| RMSprop | 0.1541 | 0.9815 |
| Adagrad | 0.0972 | 0.9853 |
| Adadelta | 0.1001 | 0.9855 |
| Adam | 0.1350 | 0.9774 |
| Adamax | 0.1028 | 0.9861 |
| Nadam | 0.1310 | 0.9792 |

Among these optimisers Adamax has the best accuracy but its test loss is not the least among all thus with minimum test loss and high test accuracy the best optimiser is Adagrad.

1. CIFAR10

* Test Loss: 14.5062
* Test Accuracy: 0.1

1. CIFAR100

* Test Loss: 4.6059
* Test Accuracy: 0.01

1. Fashion MNIST

* Test Loss: 14.5062
* Test Accuracy: 0.1