Lab 3(J044)

* Mnist

|  |  |  |
| --- | --- | --- |
| 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 |

It is quite obvious from the table above that the one with lowest test loss and highest test accuracy will be the best method. Therefore adamax serves the purpose with lowest test loss and highest test accuracy.

* CIFAR10

Test Loss: 14.5052

Test Accuracy: 0.1

* CIFAR100

Test Loss: 4.6060

Test Accuracy: 0.01

* Fashion MNIST

Test Loss: 14.5069

Test Accuracy: 0.1