1.

Learning rate = 0.01

RMSPropOptimizer

Steps:10000

Average Loss= 1.547370, Average Accuracy= 61.80%

2.

Learning rate = 0.5

AdaGradOptimizer

Steps:1000

Average Loss= 4.537426, Average Accuracy= 10.00%

3.

Learning rate = 0.01

Adam optimizer

Average Loss= 1.534864, Average Accuracy= 56.00%

4.

Learning rate = 0.01

Gradient descent optimizer

Average Loss= 3.718875, Average Accuracy= 17.00%

5.

N\_input =5

N\_hidden = 256

Average Loss= 2.245344, Average Accuracy= 51.00%

6.

N\_input = 2

N\_hidden = 128

Average Loss= 2.435006, Average Accuracy= 25.00%

7.

N\_input = 2

N\_hidden = 1024

Average Loss= 3.569235, Average Accuracy= 19.00%

8.

2 stack LMNST

Average Loss= 2.329705, Average Accuracy= 25.00%