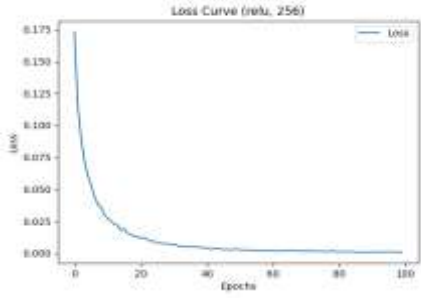
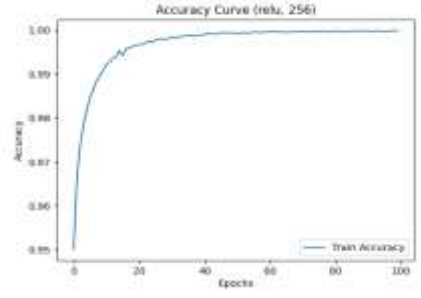

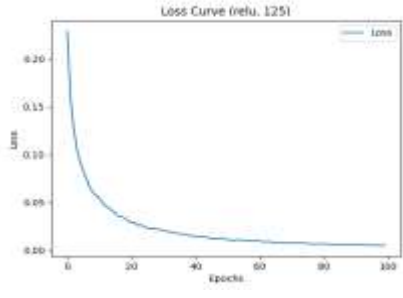
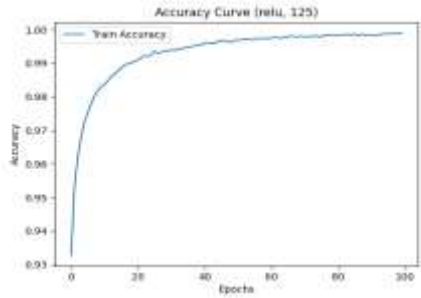

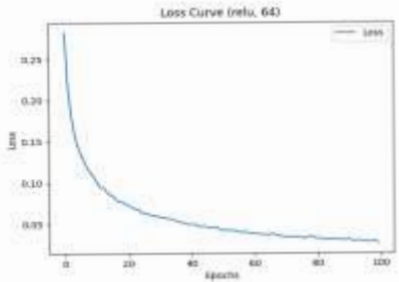
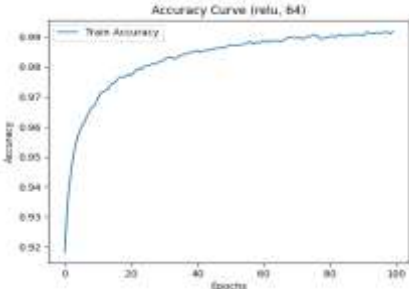
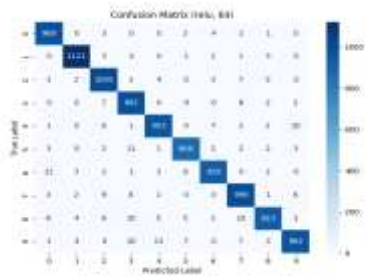
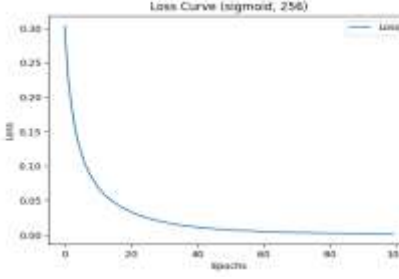
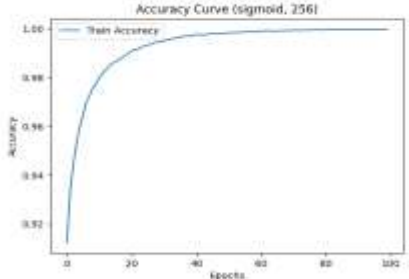

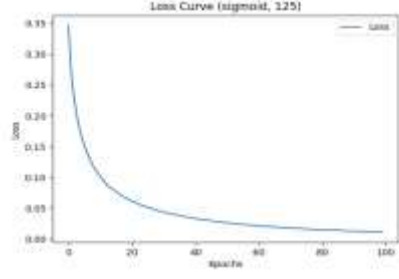
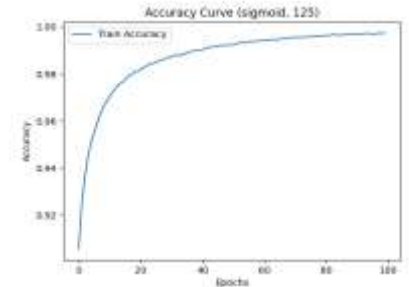
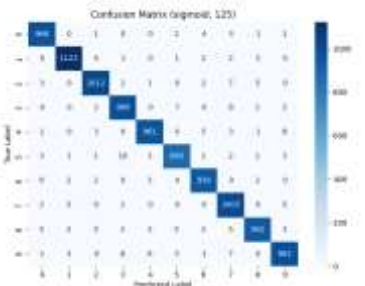
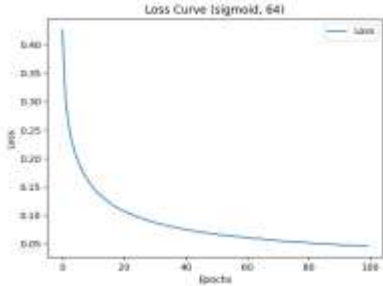
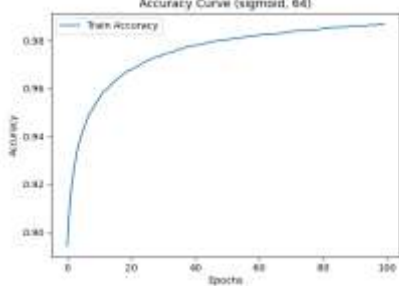
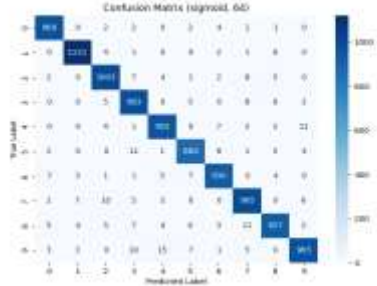
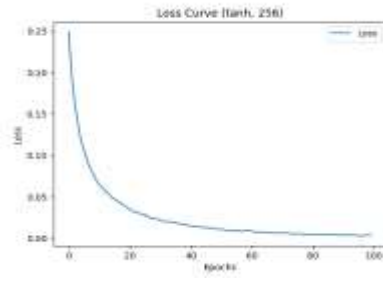
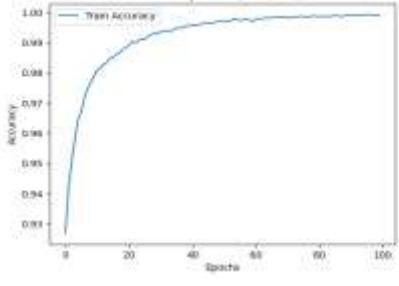

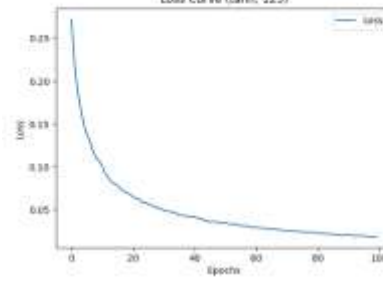
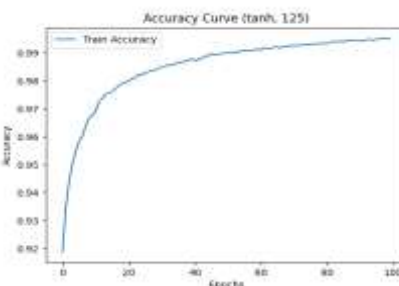
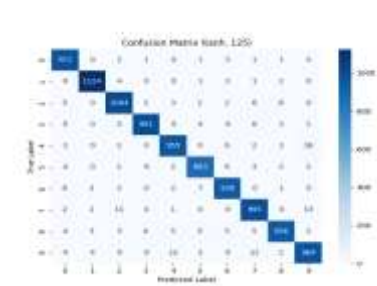
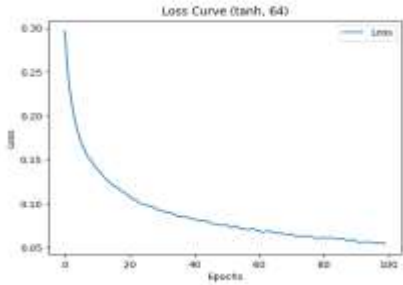
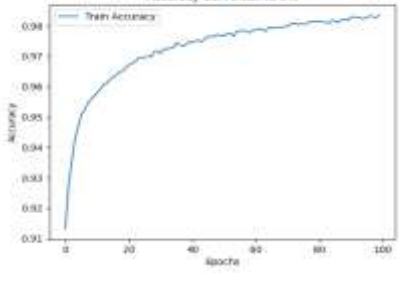
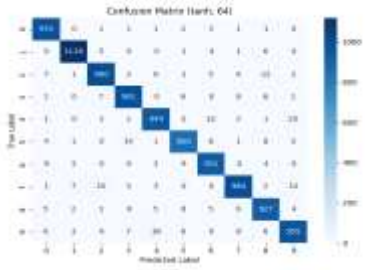


Neural Network Laboratory Experiment 4 Output

Hidden_size	Activation func(hidden layer)	Loss Curve	Accuracy Curve	Test Acc(%)	Confusion Matrix	Execution time(sec)
256	ReLU			98.47		369.01
125	ReLU			97.85		251

64	ReLU			97.06		181.86
256	sigmoid			98.21		403.24
125	sigmoid			97.85		245.93

64	sigmoid			97.07		180.73
256	Tanh			97.83		378.73
125	Tanh			97.41		241.32

64	Tanh	 <p>Loss Curve (tanh, 64)</p> <p>This line plot shows the training loss over 100 epochs. The y-axis represents the loss, ranging from 0.05 to 0.30. The x-axis represents the number of epochs, ranging from 0 to 100. The loss starts at approximately 0.30 at epoch 0 and decreases rapidly, reaching about 0.10 by epoch 20, and then continues to decrease more slowly, reaching approximately 0.05 by epoch 100.</p>	 <p>Accuracy Curve (tanh, 64)</p> <p>This line plot shows the training accuracy over 100 epochs. The y-axis represents the accuracy, ranging from 0.91 to 0.98. The x-axis represents the number of epochs, ranging from 0 to 100. The accuracy starts at approximately 0.91 at epoch 0 and increases rapidly, reaching about 0.96 by epoch 20, and then continues to increase more slowly, reaching approximately 0.98 by epoch 100.</p>	96.5	 <p>Confusion Matrix (tanh, 64)</p> <p>This heatmap shows the confusion matrix for the tanh activation function with 64 units. The x-axis is labeled 'Predicted Label' and the y-axis is labeled 'True Label'. Both axes range from 0 to 9. The color scale on the right indicates the count of instances, ranging from 0 (light blue) to 1000 (dark blue). The diagonal elements, representing correct classifications, are the most prominent, with values ranging from approximately 800 to 1000. There are some off-diagonal elements, indicating misclassifications, with values ranging from approximately 100 to 300.</p>	177.69
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