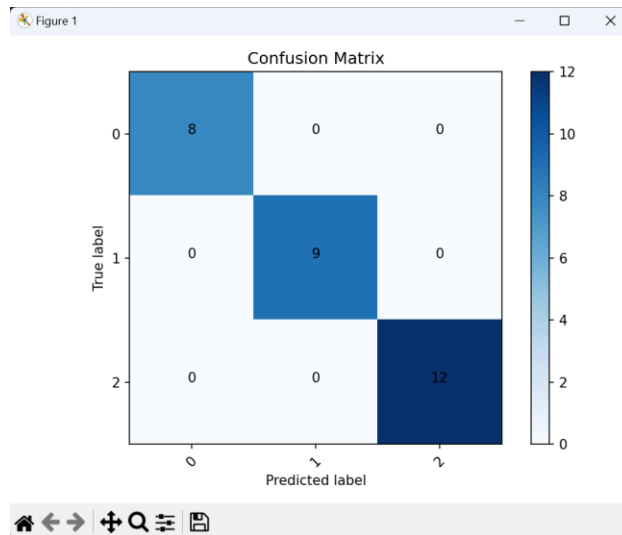


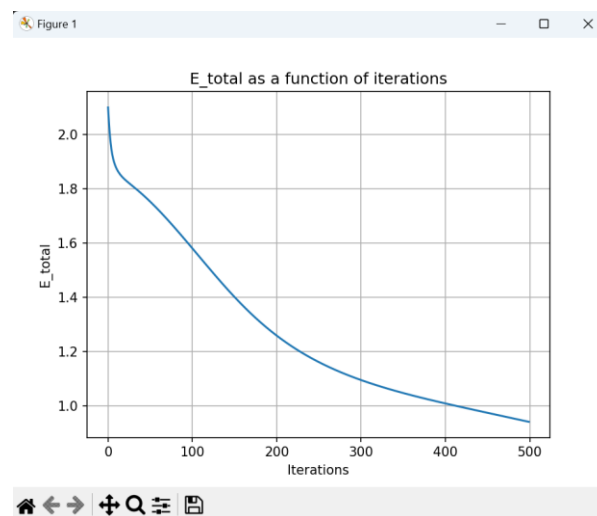
I used seed = 66666

1. Accuracy on the test set: 1.0000

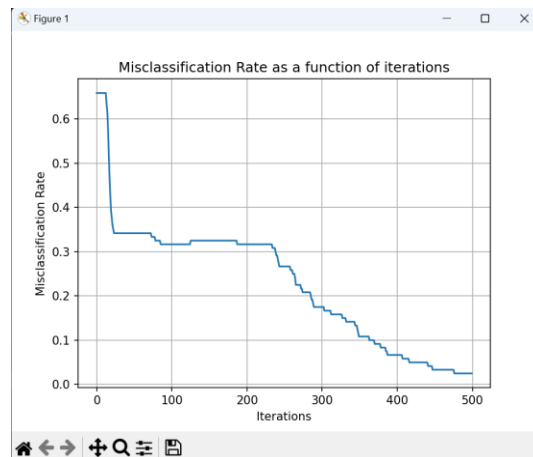
2.



3.



4.



Discussion:

The network achieved an accuracy of 1.000 (100%) which is the perfect accuracy on seed 66666. Since the dataset is relatively small and easy to classify this result is not surprising.

What the confusion matrix tells us is that there are no off diagonal elements which signifies that the network did not misclassify any instances. All values aligned perfectly along the diagonal.

Regarding E_{total} , the decrease in it across iterations shows that the training process is functioning as expected.

With the rate approaching 0 the misclassification signifies perfect performance on the test data. The network started with some errors during the early stages of training but eventually learned to classify all samples correctly.

Conclusion: Successful application of the neural network on the iris dataset.