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Task 1)

- Training and testing on the yeast_string dataset, with 4 layers, 50 units for the first hidden layer, 20 units for the second hidden layer, 60 epochs, "tanh" activation for the first hidden layer, and "sigmoid" activation for the second hidden layer.
 - Classification accuracy on test set: 57.44%
- Training and testing on the synth5 dataset, with 4 layers, 20 units for the first hidden layer, 10 units for the second hidden layer, 80 epochs, "tanh" activation for the first hidden layer, and "sigmoid" activation for the second hidden layer.
 - Classification accuracy on test set: 91.25%

Task 2)

Test accuracy: 98.18%

Task 3)

Test accuracy: 99.22%