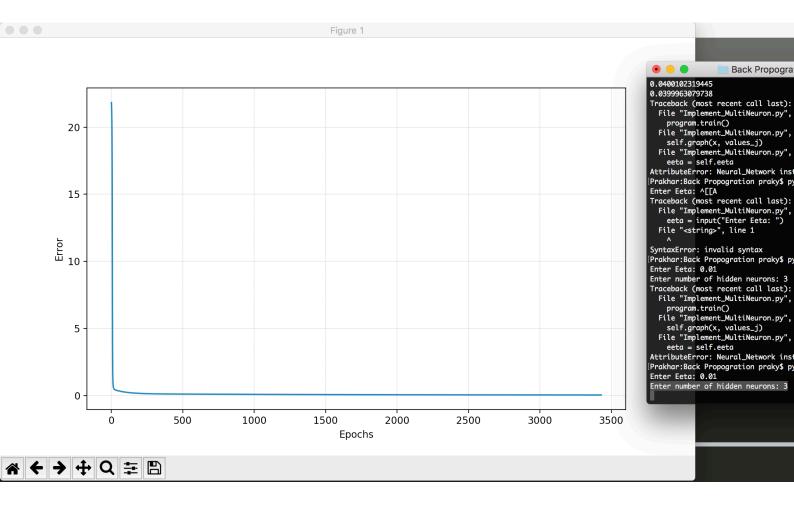
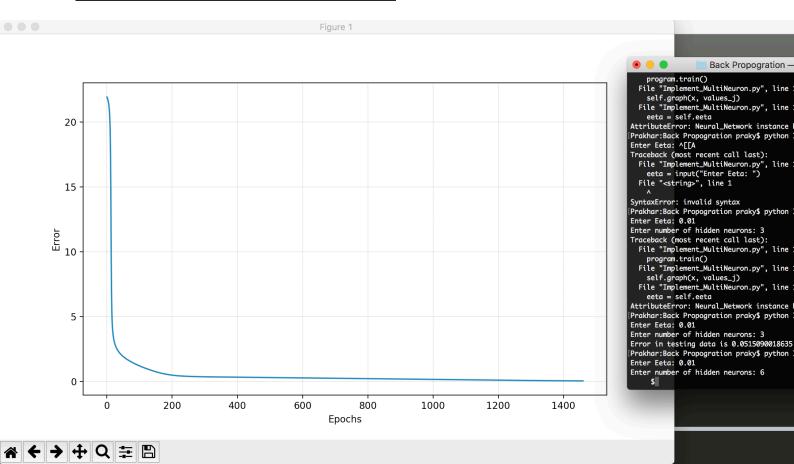
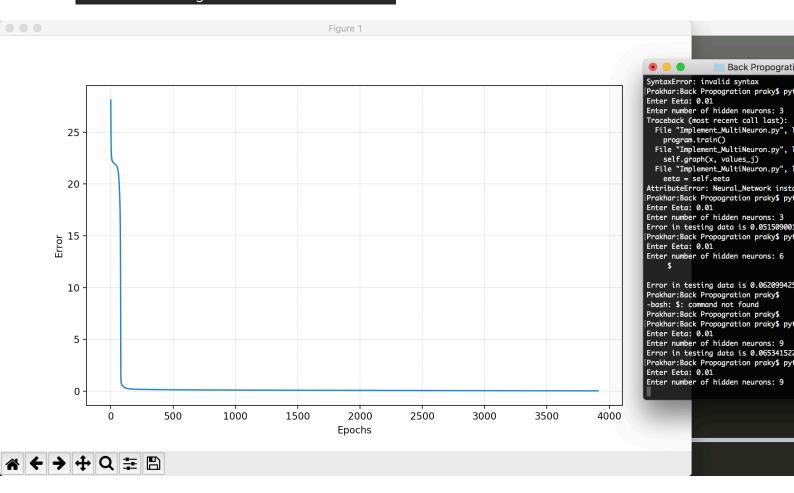
For 3 Hidden Neurons
Error in testing data is 0.0515090018635



For 6 Hidden Neurons Error in testing data is 0.0620994257181



For 9 Hidden Neurons Error in testing data is 0.0521766569587



There is no correlation between testing data error and the number of neurons. I tried running the code with 20 and 30 hidden neurons but the error remains in the range of 0.5 and 0.6

I would thus conclude that hidden neurons for such a small dataset are not able to make much of an impact how many ever of them are used. The error as well as he number of epochs to reach the same is more or less the same.

This is possibly due to overfitting, since the data is small. The model starts counting in for the noises which is why the error in the testing is becoming larger (0.07) at a very large number of neurons (ie, 100)