Sebastian Oakes – Computational Neuroscience - Assignment 3

All figures plotted using GnuPlot.

Ex. 1

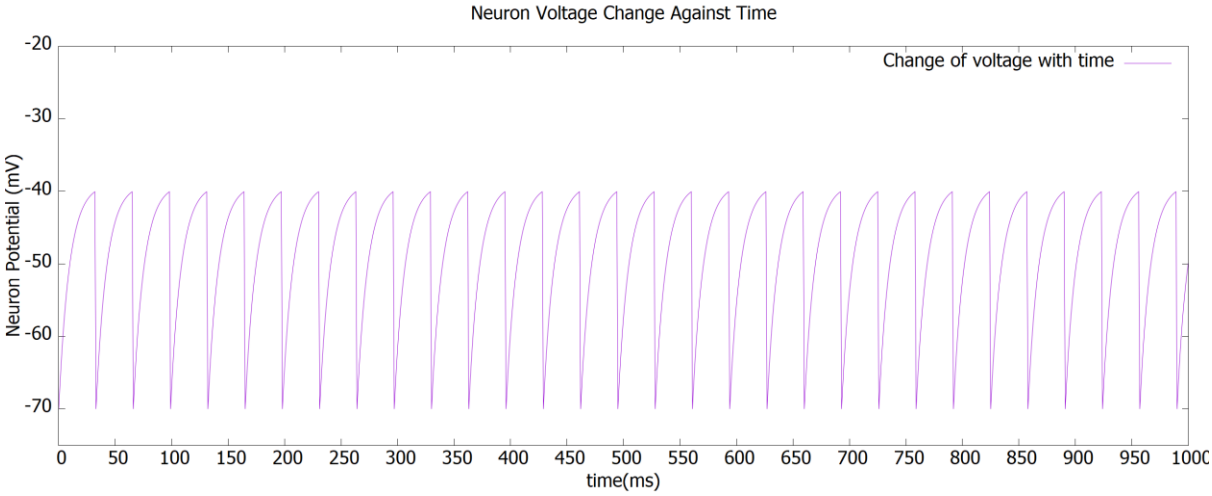

Figure 1 - Plot displaying the results of a simulated integrate and fire model using the parameters specified. The data was created using Euler's method for numerically solving differential equations, with a timestep of dT = 1ms.

Ex 2)

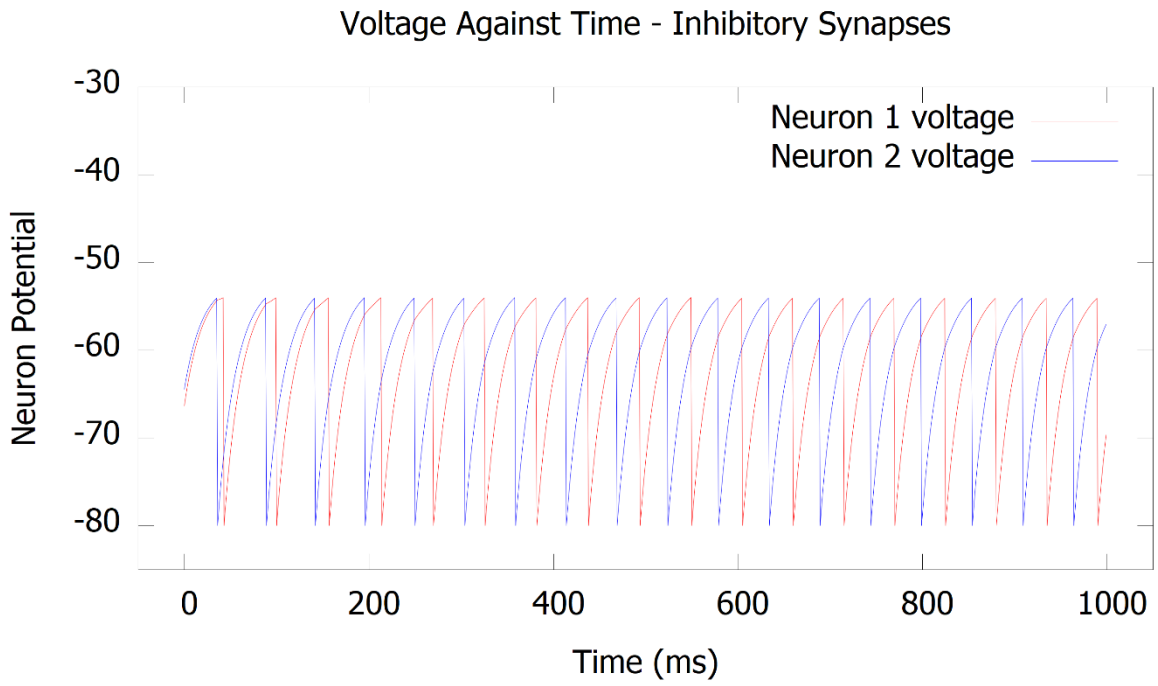

Figure 2 - Plot displaying the voltage results for the two modelled neurons over the 1 second period, connected using excitatory synapses.

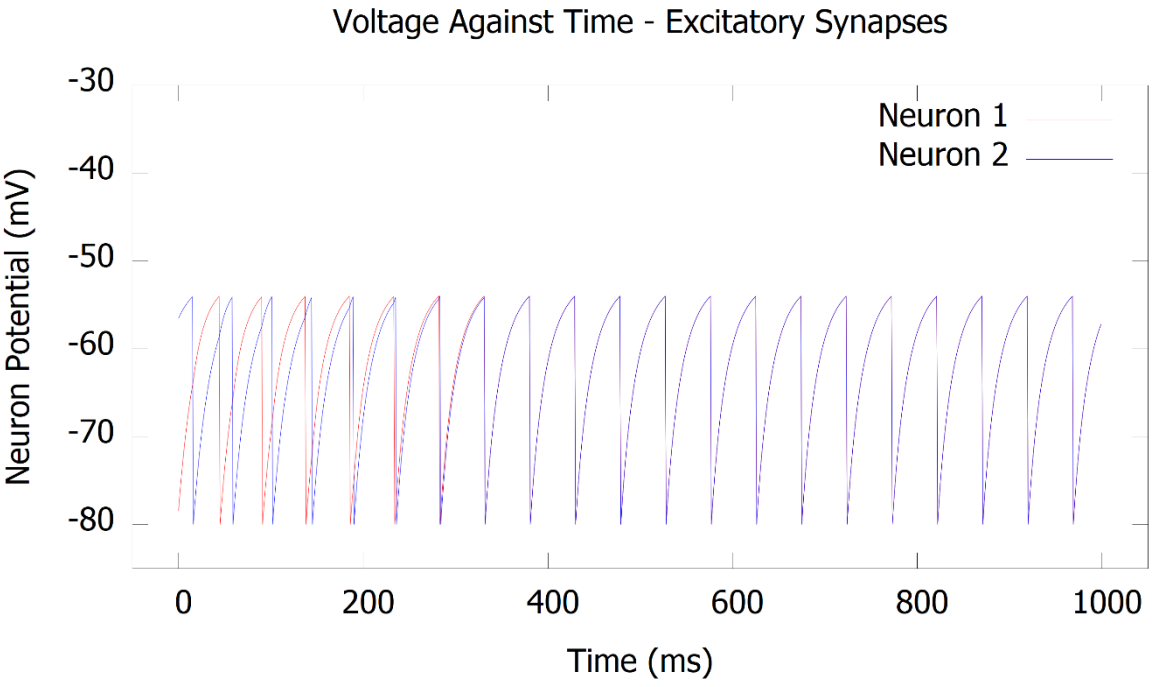

Figure 3 - Plot displaying the voltage results for the two modelled neurons over the 1 second period, connected using excitatory synapses.