

These programs read keystrokes using Tkinter.
The keystrokes are used to adjust the parameters
of a signal.
The signal is displayed in a Tkinter window using
the animation function.

Libraries: Tkinter, Pyaudio, and Matplotlib.Animation

prog_01_sin.py

Adjust the frequency of a sine wave via key strokes.

prog_02_sin.py

Adjust the frequency of a sine wave via key strokes.

Play the sine wave using Pyaudio.

prog_03_diffeq.py

Play and plot a note, calculated as the output of a filter
implemented as a second-order difference equation.

When the user presses a key on the keyboard, a note
is played.