All program use the animation function for fast plotting. The programs import wave files, but do not create any input or output audio streams. Pyaudio is not used.							
Signals are from files							
File name	**Notes**	**Numpy**	**Input signal**	**FFT**	**Effect**	**Spectrum**	**Units**
prog_A1	Read a signal from a wave file, and plot the signal using the animation function.		File				
prog_A2	Read a signal from a wave file, plot the signal and its Fourier transform using the animation function.	Y	File	Y		Y	
prog_A3	Read a signal from a wave file, implement a filter as a recursive difference equation, plot the frequency response of the filter, and plot the input and output signals using the animation function.	Y	File		Filter		Y
prog_A4	Read a signal from a wave file, implement a filter as a recursive difference equation, plot the frequency response of the filter, and plot the input and output signals and their Fourier transforms using the animation function.	Y	File	Y	Filter	Y	Y
prog_B1	Rolling style of plotting		File				