Examples using the animation function to plot real-time audio signals.

File name	Notes	Pyaudio	Input signal	Output audio?	Loop?	Effect?	Time-axis units?
prog_01	Read a signal from a wave file, and plot the signal using the animate function.		File				
prog_02	Read a signal from a wave file, implement the amplitude modulation (AM) effect, and plot the signals using the animate function.		File			AM	
prog_03	Read a signal from a wave file, plot the signal using the animate function, and play the signal using pyaudio.	Y	File	Y			
prog_04	Read a signal from a wave file, plot the signal using the animate function, and play the signal using pyaudio. Run the process in a continuous loop.	Y	File	Y	Y		Y
prog_05	Read a signal from a wave file, implement the amplitude modulation (AM) effect, plot the signals using the animate function, and play the output signal using pyaudio. Run the process in a continuous loop.	Y	File	Y	Y	AM	Y
prog_06	Acquire the microphone signal using pyaudio, and plot the signal using the animate function.	Y	Microphone				Y
prog_07	Acquire microphone signal using pyaudio, implement the amplitude modulation (AM) effect, and plot the signals using the animate function.	Y	Microphone	Y		AM	Y
Exercise	Modify program prog_05 so that the effect is a bandpass filter instead of amplitude modulation.						