Tune-Up Tuesday for September 26, 2017

Write the MATLAB code for the following:

(a) Generate a chirp signal *x*[*n*] = cos( (0.7x10-4) *n2*) for *n* = 0, 1, …, 24000.

(b) Plot the spectrogram *x*[*n*] with *fs* = 8000 Hz. See slide 4-12.

**fs = 8000;**

**blockSize = 1024; % Slide 4-12**

**shift = 512;**

**spectrogram(x, blockSize, shift, blockSize, fs, 'yaxis');**

(c) Play the audio signal using *fs* = 8000 Hz

(d) Using MATLAB comments, describe what you hear.