Meeting #25:

We did CW #13, diagrams in class notes for Meeting #24. What is a period T of a sinusoid? How to get the frequency f from the period? What are the differences with respect to CW #10? What do we do with the time increment delta here? How many "Eval Single-Variable Array" do we use? Why? How do we incorporate a frequency into each signal?

Project 3:

Beat Phenomenon Demo: Why do we multiply cos(t) by 127 and Then add 128? What are "To Unsign Byte Integer" and "Snd Write Waveform" for and where to get them?

Frequency Spectrum Detection: Here are the original labels of the Items we need to make a Spectrum Detection VI, not in any particular Order – elements on a same line are related,

🖻 pr3detect.vi Block Diagram * 📃 🗖 ව	3
Edit Operate Tools Browse Window Help Image: Second	
Read Waveform from File.vi	
Path Waveform Graph	
Waveform Graph 2	

What is the most important element in a VI for frequency Spectrum detection?

"Path": for ergonomic design should we place a "Path Control" In the Control Panel or a "Path Constant" in the Block Diagram? Go here to download a sample input file: http://www.faculty.umb.edu/tomas_materdey/103s05/files/file01 If you have put together the above elements correctly, you should see two groups of five peaks each in your Waveform Graph, this means there were 5 frequency components in the original signal, the other group is a "math side effect of the Fourier Transform" and should be ignored