CSCI 1320 Computer Science I: Engineering Applications – Fall 2018

Instructor: Zagrodzki

Lab 5

Due Friday, October 12, by 6pm

Sound Effects and Analysis Tool: Pseudocode and Skeleton Code

In this week's assignment you will be creating an audio effects and analysis tool. For the lab, you need to create a skeleton code that will serve as your template for the assignment. As exemplified in lecture, a skeleton code is MATLAB program that contains the main script as well as all the function calls needed for the final program. You do *not* need to have your actual functions implemented at this point. Instead, you should have function stubs. A function stub can be called with the expected (or simulated) inputs and it returns an output that *looks* like the intended output, but dummy (or simulated) data is used at this point.

At this point find the Assignment 5 write up and read through it carefully

The aspects of your program that should be functional by the time you finish the lab:

- 1. Graphical User Interface using the MATLAB *menu* function. Make sure you use a *while* loop so that your GUI stays active until the user decides to exit.
- 2. Have your 3 function stubs (soundEcho, compress, fftBar) that get called with dummy variables (correct number of input and output arguments as well as correct data types.)
- 3. Inside each of your function files, use comments to write pseudocode for each function's actual algorithm. A function stub should look something like this:

Submitting the assignment:

Make sure your m-files are well commented and include in the header your name, student ID, course number, lab number and recitation section. Submit the files in as a zip-file through Moodle as Lab 5 by due date.