Assignment 6: Making Music

Due: FRIDAY, April 29, 11:59 PM

Introduction
When you first learn to play music on the piano or violin (or just about any instrument for that matter) you play music by playing a sequence of distinct notes. For example, the first phrase of Mary had a Little Lamb is E - D - C - D - E - E- E.   In this assignment we will look at creating music by sequencing (splicing) a sequence of sounds.

Requirements
- Create a function makeMusic() that takes no input parameters
- You may use any sounds you like. If you have no ideas you may use the sounds in our mediasources directory:
  http://coweb.cc.gatech.edu/mediaComp-teach/uploads/1/mediasources-4ed.zip
    - This includes brass notes, string notes, drum sounds, animal sounds, etc. BE CREATIVE!
- Your function must get files out of the directory that the media path is set to.
- Your final sound must be *at least 10 seconds long*.
- You are to concatenate/splice sounds into your new empty sound. You must use *at least 5 different sound files for at least 15 total sounds*. For example, the Mary Had a Little Lamb example above would use 3 different sound files for a total of 7 sounds.
- For an extra few points, produce a recognizable tune/song.
- Your function will return the sound you constructed.
- Do NOT write this as one large function: you should write several helper functions. As always, feel free to use any of the code from class as a helpful guide.

Testing your assignment
To test your code I will open/load hw6.py and type
>>> setMediaPath()
>>> output = makeMusic()
>>> play(output)

Submissions: submit your file called hw6.py to eLearning by the due date.

May the Music be with you.