Python Syntax Quick Reference for Coding the Sounds of Music Project

TI-NSPIRE™ CXII PYTHON

Command	Example	Behavior
from module_name import *	`from ti_hub import *`	Imports all the functions in the ti_hub module for use in the program. The ti_hub module includes all the necessary additions needed for the Music project.
sound.tone(frequency,time)	`sound.tone(440,1)`	Plays a tone through the TI-Innovator Hub speaker. In the example, plays the frequency 440 hertz (Hz) for 1 second.
sleep(seconds)	`sleep(1.5)`	Pauses program for 1.5 seconds.
sound.note("note",time)	`sound.tone("C4",.6)`	Plays a note through the TI-Innovator Hub speaker. In the example, plays the note C4 (middle C, C in the 4th octave) for .6 seconds. The note is entered as a text string with capital letters for the note name.
# text comment	`#Make sure your Hub is connected`	# at the beginning of a line denotes a comment. Comments are a "best practice" by programmers to annotate their code. Comment statements are ignored when the program is run. In the TI-Nspire CXII Python editor, [ctrl]+[T] toggles the statement of the current cursor location from a comment to a statement that will be run.

See TI-Innovator Hub Technology eGuide for more background on Hub-specific commands – Link

See TI-Nspire CXII Python Programming eGuide for more background on Python commands - Link