

CMSC 143: Object-Oriented Programming with Robots

Assignment 1: Sing and Dance

Due September 19th, 2016

The first assignment asks you to write a program to make your robot sing (well, beep!) and dance. You should write a sing and dance routine (a function named `dance()`). Your Python program should include the following components:

1. An effectively commented program, including your name, the date, email and explanations of any complicated code. For example, the first couple of lines should look like

```
# Keith O'Hara <kohara@bard.edu>
# Sep 9 2016
#
# Assignment 1 -- Sing and Dance
# Collaboration Statement

def dance():
```

2. Take some input from the user (using the `ask` function) to determine the dance behavior (e.g. length, number of steps, tempo, key).
3. Use a looping construct (`for` or `while` loops).

Learning Objectives

- How to write functions.
- How to use loops.
- How to get input from the user.
- How to properly document a program.

Deliverable

Submit an electronic copy of your program using moodle. Your submission should be a zip file that expands to a folder with a single file:

```
cmsc143-sing_and_dance-LASTNAME-FIRSTNAME
    sing_and_dance.py
```