

## CMSC 143: Introduction to Object-Oriented Programming with Robots

# Assignment 1: Sing and Dance

Due February 9, 2011

The first assignment asks you to write a program to make your robot sing (well, beep!) and dance. You should write a 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>  
# Feb 1 2011  
#  
# Assignment 1 description  
#  
#####  
  
def dance():
```

2. Take some input from the user (using the `raw_input` 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 via moodle. It should be named: `cmsc143_sing_and_dance_NAME.py`.