CS 111 Midterm Review Guide

Topics covered:
- Variables
- Expressions
- Loops (while and for)
- Lists
- Strings
- Functions
- Classes and objects
- Pygame
- vpython

There are no questions which are purely from the book. Closed book. A page or two of notes will be allowed. For the notes, it is advisable to make a list of keywords used in class demos and labs with a brief reminder on what each of them does. The class demos and labs are the most relevant study material for the test.

A quick overview of the test:

Sample Questions

Question 1: *(7 points)* Suppose you have a list of strings called `list_of_cat_names`. Give a loop which prints out each item in turn.

Question 2: *(7 points)* What is the output of the following Python program?

```
x = 22
y = 4
print x + y
y = y + 20
if x > y:
   print "Beep"
else:
   if y > x and x > 23:
      print "Click"
   else:
      print "Whirr"
```

Question 3: *(7 points)* What is the difference between the following lines of code? Why would you prefer one or the other?
```
import math
from math import *
```