

## 2/27 in Class Work– Graphics

Don't erase the white board until I have checked it off—and maybe taken a pic.

If you get stuck, feel free to move around the room and consult with another group, please feel free to introduce yourselves to the neighboring group and ask them for help. Or you can look around the room and see if another group has it on the board.

For in class work like this, the most important thing is engagement with the material. I am not looking for perfection here, quite the opposite. I hope we will all have a willingness to work together, and to be open to what we need to learn.

Carefully show your work, so that another person, not in your group, would be able to follow it.

### 1. Draw three shapes

- (a) Working in a group, write an algorithm (on the white board ) to solve the assignment in part (b)
- (b) Individually, write a program that:
  - Opens a graphics window called “;YourName;’s Shapes”
  - Draws a circle, square, and triangle to the graphics window.
  - Makes all the shapes a different color
  - Makes all of them different sizes
  - Draws them so that none of them overlap
- (c) When you finish, check in with other members of your group. See if you can help them if they are stuck.
- (d) Let me check off your shapes. (If we run out of time we can try printing and handing them to me.)
- (e) Upload your .py file to moodle. (This is more of a test of using moodle than a grading thing.) Please put your name in the file name. Don't forget your name, program name, date, anyone you worked with, and any sources in the top few comment lines of your program.

2. Repeat the previous problem—steps (a)-(d)—but this time, don't draw the shapes until the user clicks on the window.

Prompt the user to click. Prompt the user to click for each shape; something like, “Click to draw a square”

Extra: you could allow the user to click to end the session.

3. HW04 will be Chapter 4, PE 2, 4, 1, and 9. (2 and 4 are much easier than 1 and 9.) If you have time, it would be great if you worked on algorithms for these as a group.

Problems 1 and 9 will be due in one week, on Mar 5. Please name the files including your name and something descriptive— and don't forget to include your name, program name, date, anyone you worked with, and any sources in the top few comment lines of your program. This time, we will **submit them to moodle**.