

Objectives:

- Become familiar with python's script mode
- Write your first python program on your own.
- Start to learn about expressions, variables, and debugging
- Get used to my lab-doc style.

Tasks:

1. Create a new plain-text file (this is what IDLE creates) called lab01.py (don't forget the extension!)
2. When sample output is given, a large part of your job is to make the output look exactly as shown (for example, in step 6c, if you get the right number you get 0.5 points, but if you include the descriptive text, you get the full 2 points)
3. Include a comment with your name, what class (including section) this is for, and the lab#
4. (**2 points**) At the top of your program, create these variables (make sure to use the bold-face variable names)
 - a. **fname**: your first name (enclose it in quote)
 - b. **lname**: your last name (also enclose it in quotes)
 - c. **number**: a decimal number like 18.4 (no quotes)
 - d. **hours**: an hour value like 13 (no quotes and no decimal)
 - e. **minutes**: a minutes value like 53 (no quotes and no decimal)
 - f. **radius**: the radius in inches of a pizza (no quotes, possibly a decimal)
 - g. **cost**: the cost, in dollars, of a pizza (no quotes, possibly a decimal)
5. The rest of the program should *use* the variables from step 4 in *expressions*. It is important that if the value of the variables at the top of your program change, the output should change automatically (without any edits to the code!)
6. Write code to do the following:
 - a. (1 points) Print **fname** and **lname** (to the screen) separated by a space in a single print statement.
 - b. (1 points) Print **fname** and **lname**, but this time use the "sep" argument to print to insert a colon between them as in "Jason:Witherell"
 - c. (2 points) Print the cube-root of number. The output should look exactly like "The cube root of ___ is ____". For example, if number is holding 18.4, the output would be:


```
The cube root of 18.4 is 2.6400122435918245
```
 - d. (2 points) Calculate and print the number of seconds in **hours** hours and **minutes** minutes. The output should look exactly like "There are ___ seconds in ___ hours and ___ minutes."


```
There are 49980 seconds in 13 hours and 53 minutes.
```
 - e. Calculate the cost per square inch of a pizza with a radius of radius inches that costs \$cost total. Your output should look like "The cost per square inch of a ___-inch diameter \$___ pizza is \$___." It's OK if your program shows more (or less) than 2 decimal places. I can show you how to fix this if it really bothers you 😊
 - f. Print the message "Press Enter to quit..." and wait for the user to press enter before exiting the program.
7. Submit your program on **blackboard.shawnee.edu** (don't send it through email!). I'll show you in class (probably on Wednesday) how to do this.