Processing Assignment 3 - Working with Basic Variables

You are to complete the following in one file called YOURNAMEAssign3. Be sure to run each part before moving on to the next. As you go, add comments that give a title to each activity. **Note: You do NOT need to add any fonts or pictures to this document.  All colours are up to you.**

Setup

Make your display window (600, 800) and plan on using the top 3/4 of the window for Part 1 of the assignment.

Part 1: Time Table - Using String Variables

You are going to print the names and classes of at least 3 teachers. To do this, follow the steps below.

**Step 1:** Store the names of all of your current teachers in separate **Strings** called name1, name2, name3, etc. Store the names of one of their courses additional **Strings** called course1, course2, course3, etc.

**Step 2:** Using lines or rectangles, set up a grid for a 2 day time table.  This will essentially be a 2x4 table (or one extra row/column if you want to add titles). **Be sure to make the boxes big enough to fit in your course names.**

**Step 3:** Use text() statements that ***use the above variables*** to print out the information into the time table.  It may look like the following:

Mr. Mikula

Computer Science

Room: Computer Lab(room number / name is optional)

Part 2

Calculate the volume of air in this classroom in cubic feet. Each floor tile is exactly 1 foot square (yes, you must count them yourself) and**the ceiling is 12 feet high**. To do this, follow the steps below.

**Step 1:** Use**int**variables called w, l and h to store the *width*, *length and height*.  You can use a *volume* variable if you want or just do the math right in the text statement. Remember: volume = length \* width \* height

**Step 2:** Print out your final statement such as:

The computer lab contains approximately \_\_\_ cubic feet of air.

Part 3: final 10%

If you can calculate the volume of the room, it should be easy to calculate the square footage of the room.  Imagine we are going to rip up the existing flooring and put in a fancier ceramic tile.  The standard size of ceramic tile is 16 inches x 16 inches (16 inches = 1.33 feet).  Create a formula to calculate and then print the number of tiles that can fit in this room.

Part 4: Extra Challenge

For those of you who have mastered ‘basic variables’, you likely completed the above activities fairly quickly.  To challenge yourself, see if you can work some IF STATEMENTS into the examples above. For example:  
  
IF (semester == 2), you have Math in block 1  
ELSE, you have Science