CMPS 150 – Lab 6

The following is an exercise in using Python selection statements. When done, upload your completed lab to your TA on Moodle. This exercise will be available online on Moodle if you wish to use it again.

1. Copy/Save the lab source code file for today from the Moodle Lecture Site

Look for the file for today "lab6.py" and save the file to your machine.

2. Launch IDLE.

3. Open the source code file just copied to your home directory.

Select "File" from the menu bar, "Open" from the menu, then `lab6.py` from the list of files.

4. Edit these lines of the code to have your name/clid/section.)

```
# Author:          Your-Name
# ULID/Section:    Your-ULID & lecture section-number go here
```

Part I: Write the code to display a table similar to the one below of pounds and equivalent kilograms (note, 1 pound is 0.453592 kilograms). You must use a count control while loop.

```
 Pounds     Kilograms
----------------------
   10          4.54
   20          9.07
   30         13.61
   40         18.14
   50         22.68
   60         27.22
   70         31.75
   80         36.29
   90         40.82
  100         45.36
```

Part II: For the second part, write the code to display a table similar to the one below of inches and centimeters (note, 1 inch is 2.54 centimeters). Again, use a count control while loop.

```
 Inches   Centimeters
---------------------
  18.50       46.99
  17.00       43.18
  15.50       39.37
  14.00       35.56
  12.50       31.75
  11.00       27.94
   9.50       24.13
   8.00       20.32
   6.50       16.51
```

5. <u>Save your changes and run your code</u>. ***(you can also simply press F5)***

6. <u>Debug your code (perhaps you can skip this step).</u>

If you have any errors in your code, the interpreter will produce an error, with a line number, where it detects there is a problem with your code. Return to the editor and correct the error. Run it through the interpreter again (step 5) until it runs with no errors.

7. Sample Run (note: since there is no input, only one(1) sample run is needed)

```
 Pounds     Kilograms
--------------------
   10          4.54
   20          9.07
   30         13.61
   40         18.14
   50         22.68
   60         27.22
   70         31.75
   80         36.29
   90         40.82
  100         45.36


 Inches   Centimeters
--------------------
   18.5       46.99
   17.0       43.18
   15.5       39.37
   14.0       35.56
   12.5       31.75
   11.0       27.94
    9.5       24.13
    8.0       20.32
    6.5       16.51
```

8. Exit Python
Close the Python IDLE editor.
Close the Python IDLE shell.

9. Upload to Moodle
Get in a browser (the globe icon on the toolbar at the top) and login to Moodle.
Go to your lecture section on the Moodle site.
Here you will see the lab for today. Click on the link for Lab #6 Submission.
Click to "Add a Submission" then "Upload a File"
Select to "Choose a File" and go about the process of browsing/finding "lab6.py" on the computer
Select to "Upload this File"

When returned to the Upload screen, MAKE SURE to click on the "Save Changes" button.

You will be returned to the "Lab #6 Submission" screen. This time you should see your source code file listed on it.

10. Logout of Moodle