**Hypothes.is Assignment: (2 pts)** Make an annotation on a resource that assisted you in performing this assignment.

**Individual Homework Activity (20 pts):**

Please place your code for each step in a single file (**yourlastname\_py09.py**) and submit it to the Google Drive.

The homework has three steps, and each step should be its own function in your python program.

**Step 1: Writing to a File in the Current Folder**

Convert your program that converts the temperature in Celsius to Fahrenheit. This time, using a function called **convertOutput()**, have the program output the two pieces of data to a txt file. For each line in the data file, you should have a temperature in Celsius, and the second in Fahrenheit. The first line of data in the file should be Celsius, Farhenheit (see sample output below). Write the data to a file named **temperatures.txt**. In the file you should have all integer values of Celsius from 0 to 100 in **5 degree** increments.

Test your program by running it and when the program ends, open the file the program wrote to by double-clicking it. What’s in the file? If you don’t see your list of temperatures, then you have done something wrong and should go fix your program.

**Step 2: Reading from a File in the Current Folder**

Now add a function called **outputData()** to your program to read data from the temperature file your program wrote. Can you read data from a file that wasn’t written by your program? YES!!! But having you read from a file you already created saves us the step of having you make a new file. Print out the data to the screen that is read in from the file. Use rstrip() to remove unsightly extra line feeds.

**Step 3: Copying from One File to Another File in the Current Folder**

Add a function called **copyFile**() that asks for a new file name as an argument, reads the data from **temperatures.txt**, and writes the data to the new file. Make sure it worked by checking the new file!

Your program must contain documentation lines that include your name, the date, a line that states “PA9 Individual Homework” and a description line that indicates what the program is supposed to do. Take a screen shot of the program and the output and attach the files (PA9\_yourname.py, temperatures.txt, copyfile.txt and screenshots) to homework python activity 9 in Moodle. (15 points)

**Sample output for 4 degree increments:**

|  |  |
| --- | --- |
|  |  |