**Lab #8 (10 points + 5 bonus points)**

# Practice: lists and files

Task #1: Reading temperature data

Step 1: Given a data file temperaturesF.txt that contains temperature data (in Fahrenheit) for every day of 2016 with each line storing the data for a month. Open the file, read in the data, and store all data in a list. When opening the file, if file not found (e.g. file name wrong etc.) print out an error message. If no error, print out the list.

Step 2: convert each data to Celsius degrees.

Step 3: Write the new list to a file named temperaturesC.txt

Submission: Submit your program as well as the input data file and output data file (total 3 files) to blackboard under Lab 8 link.

Task #2: File Dialogs (optional, bonus 5 pts)

Instead of typing in file names, write code that you could select the files. Sample codes below:

from tkinter.filedialog import askopenfilename, asksaveasfilename

infileName = askopenfilename()

outfileName = asksaveasfilename()

infile = open(infileName, "r")

outfile = open(outfileName, "w")

for line in infile :

print(line, file=outfile)

infile.close()

outfile.close()

Submission: demo to instructor during the lab session.