

Python for Informatics

Assignment 5

“Message Frequency Count”

Description:

1. Write a program that reads through the mail box data and when you find a line that starts with “From”, extract the address information from the line. Count the number of messages from each person by using a **dictionary**. Note that you might need to look at more than “From” because of duplicate instances of the address (hint: “From “ vs. “From:”). Otherwise, embedded email “thread histories” may cause your count to be incorrect.
2. After all of the data has been read, print (i.e., *print*) the address of the person with the highest number of messages, along with the number of messages of that person. To do this, create a list of tuples (count, email) from the dictionary, sort the list in reverse order and print out the person who has the highest number of messages.

Deliverable:

Two files as attachments at our course shell assignment page. The first file should be a Python .py file with the specified functionality. The second file should be a screenshot image file (.png or .jpg) demonstrating the correct execution of your program with “mbox.txt”. Please ensure that your full name is specified as a Python comment at the top of the .py file.

Submission Deadline:

Please see the course schedule in our syllabus for all assignment submission deadlines.