**Home work 5: File Handling**

**Exercise 1: Download a copy of the file www.py4e.com/code3/romeo.txt.**

**Write a program to open the file *romeo.txt* and read it line by line. For**

**each line, split the line into a list of words using the split function.**

**For each word, check to see if the word is already in a list. If the word**

**is not in the list, add it to the list. When the program completes, sort**

**and print the resulting words in alphabetical order.**

Enter file: romeo.txt

['Arise', 'But', 'It', 'Juliet', 'Who', 'already',

'and', 'breaks', 'east', 'envious', 'fair', 'grief',

'is', 'kill', 'light', 'moon', 'pale', 'sick', 'soft',

'sun', 'the', 'through', 'what', 'window',

'with', 'yonder']

**Exercise 2: Write a program to read through the mail box data (mbox.txt) and**

**when you find line that starts with “From”, you will split the line into**

**words using the split function. We are interested in who sent the**

**message, which is the second word on the From line.**

From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008

**You will parse the From line and print out the second word for each**

**From line, then you will also count the number of From (not From:)**

**lines and print out a count at the end. This is a good sample output**

**with a few lines removed:**

python fromcount.py

Enter a file name: mbox-short.txt

stephen.marquard@uct.ac.za

louis@media.berkeley.edu

zqian@umich.edu

[...some output removed...]

ray@media.berkeley.edu

cwen@iupui.edu

cwen@iupui.edu

cwen@iupui.edu

There were 27 lines in the file with From as the first word

**Exercise 3: Rewrite the program that prompts the user for a list of**

**numbers and prints out the maximum and minimum of the numbers at**

**the end when the user enters “done”. Write the program to store the**

**numbers the user enters in a list and use the max() and min() functions to**

**compute the maximum and minimum numbers after the loop completes.**

Enter a number: 6

Enter a number: 2

Enter a number: 9

Enter a number: 3

Enter a number: 5

Enter a number: done

Maximum: 9.0

Minimum: 2.0