**Week 6 : Program**

**10.2** Write a program to read through the **mbox-short.txt** and figure out the distribution by hour of the day for each of the messages. You can pull the hour out from the 'From ' line by finding the time and then splitting the string a second time using a colon.

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

Once you have accumulated the counts for each hour, print out the counts, sorted by hour as shown below.

Explanation :

**name = input("Enter file:")**

**handle = open(name)**

**d=dict()**

**for line in handle:**

**if line.startswith("From "):**

**line=line.split() # we split the line into words and store the list in a variable 'line'**

**line=line[5] #since we want to acces the '5th' word, that is 'hour', we store it in th variable 'line'**

**line=line[0:2] # to get the two digits of the hour**

**d[line]=d.get(line,0)+1**

**lst = list()**

**for key, value in d.items() : # items() prints all the key and value of the dictionary**

**lst.append( (key,value) ) # to append the hour and its count**

**lst.sort()**

**for hour,count in lst :**

**print(hour, count)**