**Week 5 : program**

**9.4** Write a program to read through the **mbox-short.txt** and figure out who has sent the greatest number of mail messages. The program looks for 'From ' lines and takes the second word of those lines as the person who sent the mail. The program creates a Python dictionary that maps the sender's mail address to a count of the number of times they appear in the file. After the dictionary is produced, the program reads through the dictionary using a maximum loop to find the most prolific committer.

Explanation :

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

**handle = open(name)**

**d=dict() # constructor of dictionary or an empty dictionary**

**words=list() # constructor of list or an empty list**

**for line in handle :**

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

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

**words.append(y[1]) # we append the email addresses into the list**

**for word in words : # we take a variable words to iterate through all the words present in the list**

**d[word]=d.get(word,0) + 1 # this is a formula where we take the count of the word in the dictionary, if the word is not present, then it would not be a traceback instead it would return us the value of the key as 1 after appending**

**maxvalue=None # initialize the maximum value of the word as "None"**

**maxkey=None # initialize the minimum value of the word as "None"**

**for key,value in d.items() : # we can tak two variables at a time during iteration for "key" and "Value" respectively**

**if value > maxvalue :**

**maxvalue = value**

**maxkey = key**

**print(maxkey,maxvalue)**