**10.4** Generate frequency list of all the commands you have used,and show the top 5 commands along with their count. (Hint: history command will give you a list of all commands used.)

**Objectives:**

1. To learn about python as scripting option.

**Theory:**

**Overview:**

All of our services are currently running on Linux. In Linux, there is a very useful command to show you all of the last commands that have been recently used. The command is simply called history, but can also be accessed by looking at your .bash\_history in your home folder. By default, the history command will show you the last five hundred commands you have entered.

**history**

You should now see a list quickly go by with the last 500 commands used, like the example below. If you like, you can just use the up arrow and down arrow to browse for any particular command you may have used recently.

1. ls -la
2. ls
3. history
4. ls
5. cd domains
6. cd ..
7. ls
8. history
9. cd ls
10. ls
11. cd data
12. ls
13. cd ..
14. cd domains
15. ls
16. cd ..
17. history

**Program:**

import operator

from subprocess import Popen, PIPE, STDOUT shell\_command = 'bash -i -c "history -r; history"'

event = Popen(shell\_command, shell=True, stdin=PIPE, stdout=PIPE, stderr=STDOUT)

output = event.communicate()

l=list(output)

l1=l[0].split("\n")

d={}

for key in l1:

key=key.split(" ")

if key[len(key)-1] in d:

d[key[len(key)-1]]=d[key[len(key)-1]]+1

else:

d[key[len(key)-1]]=1

l1=[]

for key,value in d.iteritems():

temp=[key,value]

l1.append(temp)

l1=sorted(l1,key=operator.itemgetter(1))

l1.reverse()

for i in range(5):

print(l1[i])

**Output:**

sarita@HP-Laptop-15g-dr0xxx:~$ python temp2.py

['./a.out', 136]

['g++ inher.cpp', 60]

['gedit inher.cpp', 60]

['packettracer', 29]

['cd Desktop', 20]

**Conclusion:**

1.Implementing of bash command using os library .

2.Some basics to find frequency of bash commands used.

**References:**

[1] https://docs.python.org/3/