**10.** [**Python: As a scripting language**](https://app.schoology.com/assignment/2338509415)

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:**

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.

496 ls -la

497 ls

498 history

499 ls

500 cd domains

501 cd ..

502 ls

503 history

504 cd ls

505 ls

506 cd data

234507 ls

508 cd ..

509 cd domains

510 ls

511 cd ..

512 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:**

it@it-OptiPlex-3046:~$ 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/