

## TC 20-04

```
1  #!/usr/bin/python3
2  import subprocess
3
4  print("Choose one of the following options")
5  print("1) Search for symbolic links")
6  print("2) Search for directories")
7  print("3) Search for regular files")
8  print("4) Exit")
9  option=int(input())
10
11  directory=input("Introduce target directory:")
12
13  ~ if option==1:
14      ~     result=subprocess.check_output("ls -l " + directory + " |
15          ~         grep ^l", shell=True)
16  ~ elif option==2:
17      ~     result=subprocess.check_output("ls -l " + directory + " |
18          ~         grep ^d", shell=True)
19  ~ elif option==3:
20      ~     result=subprocess.check_output("ls -l " + directory + " |
21          ~         grep ^-", shell=True)
22  ~ elif option==4:
23      ~     print("Bye")
24
25  print(result.decode("utf-8"))
```

**Challenge 1:** use -c in the grep command.

**Challenge 2:** use a while loop with the condition **option!=4**

## TC 21-04

```
1  #!/usr/bin/python3
2  import subprocess
3  import datetime
4
5  hosts=["www.google.es", "www.imdb.com"]
6
7  for host in hosts:
8      output=subprocess.check_output("ping -c 2 " + host + " | grep
9          transmitted", shell=True)
10     result=output.decode("utf-8")
11
12     packetsrec=result.split(" ")[3]
13     time=result.split(" ")[9]
14     date=datetime.datetime.now()
15
16     output=subprocess.check_output("echo '" + str(date) + ":" +
17         host + ":" + packetsrec + ":" + time + "' >> hosts.log",
18         shell=True)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python + []

profesor@profesor-virtualbox:~/python\$ cat hosts.log

## TC 22-04. Challenge.

```
1  #!/usr/bin/python3
2  import subprocess
3  import sys
4
5  def checkSystemVersion(version):
6      version_actual=subprocess.check_output("lsb_release -r | cut
7      -d ':' -f 2", shell=True)
8      version_actual=version_actual.decode("utf-8")
9
10     if version==version_actual:
11         return 1
12     else:
13         return 0
14
15  version=sys.argv[1]
16  if checkSystemVersion(version)==1:
17      print("sistema actualizado")
18  else:
19      print("debe actualizar el sistema")
20
```