

1. create directory called "iti-0"

```
vboxuser@ubuntu-22:~$ mkdir iti-0
vboxuser@ubuntu-22:~$ ls -l
total 40
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Desktop
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Documents
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Downloads
drwxrwxr-x 2 vboxuser vboxuser 4096 Feb  8 22:08 iti-0
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Music
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Pictures
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Public
drwx----- 3 vboxuser vboxuser 4096 Feb  1 19:30 snap
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Templates
drwxr-xr-x 2 vboxuser vboxuser 4096 Feb  1 19:30 Videos
```

2. create file called "file1.txt" inside iti-0 directory with content "hell9 all"

```
vboxuser@ubuntu-22:~$ cd ~/iti-0
vboxuser@ubuntu-22:~/iti-0$ pwd
/home/vboxuser/iti-0
vboxuser@ubuntu-22:~/iti-0$ touch file1.txt
vboxuser@ubuntu-22:~/iti-0$ ls
file1.txt
vboxuser@ubuntu-22:~/iti-0$ 
vboxuser@ubuntu-22:~/iti-0$ cat > file1.txt
hell9 all
vboxuser@ubuntu-22:~/iti-0$ cat file1.txt
hell9 all
```

3. change character "9" to "o" and redirect it to new file called "file2.txt"

```
vboxuser@ubuntu-22:~/iti-0$ cat file1.txt
hell9 all
vboxuser@ubuntu-22:~/iti-0$ sed 's/9/o/g' file1.txt > file2.txt
vboxuser@ubuntu-22:~/iti-0$ cat file2.txt
hello all
vboxuser@ubuntu-22:~/iti-0$
```

4. delete "file1.txt"

```
vboxuser@ubuntu-22:~/iti-0$ rm file1.txt
vboxuser@ubuntu-22:~/iti-0$ cd ..
```

5. using ls command list directories inside /var and redirect the output to iti-0/listing.txt file

```
vboxuser@ubuntu-22:~/iti-0$ ls
file2.txt
vboxuser@ubuntu-22:~/iti-0$ ls /var > listing.txt
vboxuser@ubuntu-22:~/iti-0$ ls
file2.txt  listing.txt
vboxuser@ubuntu-22:~/iti-0$ cat listing.txt
backups
cache
crash
lib
local
lock
log
mail
metrics
opt
run
snap
spool
tmp
```

6. rename listing.txt file to list_output.txt

```
vboxuser@ubuntu-22:~/iti-0$ mv listing.txt list_output.txt
vboxuser@ubuntu-22:~/iti-0$ ls
file2.txt  list_output.txt
```

7. number all lines in list_output.txt and redirect it to list_output_number.txt

```
vboxuser@ubuntu-22:~/iti-0$ nl list_output.txt > list_output_number.txt
vboxuser@ubuntu-22:~/iti-0$ cat list_output_number.txt
 1 backups
 2 cache
 3 crash
 4 lib
 5 local
 6 lock
 7 log
 8 mail
 9 metrics
10 opt
11 run
12 snap
13 spool
14 tmp
```

8. print the last 5 lines of list_output_number.txt file

```
vboxuser@ubuntu-22:~/iti-0$ sed -n '10,14p' list_output_number.txt
10  opt
11  run
12  snap
13  spool
14  tmp
vboxuser@ubuntu-22:~/iti-0$
```