1. **create directory called "iti-0**

```
sara@sara-VirtualBox:~/Desktop$ mkdir iti-0
```

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

```
sara@sara-VirtualBox:~/Desktop$ cd iti-0
sara@sara-VirtualBox:~/Desktop/iti-0$ echo "hell9 all" >file1.txt
sara@sara-VirtualBox:~/Desktop/iti-0$ ls
file1.txt
```

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

```
sara@sara-VirtualBox:~/Desktop/iti-0$ sed 's/9/o/' file1.txt > file2.txt
sara@sara-VirtualBox:~/Desktop/iti-0$ cat file2.txt
hello all
```

4. **delete "file1.txt"**

```
sara@sara-VirtualBox:~/Desktop/iti-0$ rm file1.txt
sara@sara-VirtualBox:~/Desktop/iti-0$ ls
file2.txt
```

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

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

6. **rename listing.txt file to list_output.txt**

```
sara@sara-VirtualBox:~/Desktop/iti-0$ mv listing.txt list_output.txt
sara@sara-VirtualBox:~/Desktop/iti-0$ ls
file2.txt   list_output.txt
```

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

```
sara@sara-VirtualBox:~/Desktop/iti-0$ nl list_output.txt > list_output_number.t
xt
sara@sara-VirtualBox:~/Desktop/iti-0$ ls
file2.txt   list_output_number.txt   list_output.txt
```

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

```
sara@sara-VirtualBox:~/Desktop/iti-0$ tail -5 list_output_number.txt
    10   opt
    11   run
    12   snap
    13   spool
    14   tmp
```