create directory called "iti-0

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ pwd
/home/mahmoud/Desktop
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ mkdir iti-0
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ ls
iti-0
```

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

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ echo "hello all" > iti-0/file.txt
```

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ cat file.txt
hell9 all
```

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

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ sed  's/9/o/g' file.txt  > file1.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ cat file.txt
hell9 all
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ cat file1.txt
hello all
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ 
```

delete "file1.txt"

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ rm file1.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ ls
file.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ 
```

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

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ ls /var > iti-0/listing.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ ls iti-0
file.txt  listing.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ cat iti-0/listing.txt
backups
cache
crash
lib
local
lock
log
mail
metrics
opt
run
snap
spool
tmp
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ 
```

rename listing.txt file to list_output.txt

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ ls
file.txt  listing.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ mv listing.txt list_output.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ ls
file.txt  list_output.txt
```

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

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ cat -n list_output.txt > list_output_number.txt
mahmoud@mahmoud-Virtual-Machine:~/Desktop/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
mahmoud@mahmoud-Virtual-Machine:~/Desktop/iti-0$ 
```

print the last 5 lines of list_output_number.txt file

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