

## Lab 1 Question 11:

using full path:

```
rahma@rahma-Lenovo:/usr/bin$ ls /home/rahma/usr/bin w*
```

or using relative path:

```
rahma@rahma-Lenovo:/usr/bin$ ls w*
```

# Lab 2

## Rahma Farag – G2 – Nasr City

### Question 1:

```
rahma@rahma-Lenovo:~$ cd docs
```

```
rahma@rahma-Lenovo:~/docs$ ls
```

```
mycv
```

```
rahma@rahma-Lenovo:~/docs$ vi mycv
```

```
rahma@rahma-Lenovo:~/docs$ cat mycv
```

name: Rahma Farag

Age: 23

school: modern language school

college: Cairo university faculty of engineering

experience: programing , Ai , NLP

Training: Egypt Air Avionics internship

to enter insert mode press I to insert before cursor or a to append after cursor

to go back to command mode press esc

to save and quite write in command mode :wq

### **Question 2:**

rahma@rahma-Lenovo:~/docs\$ vi mycv

### **Question 3:**

press J to move down one line in command mode

### **Question 4:**

press K to move up one line in command mode

### **Question 5:**

write :/age in command mode

### **Question 6:**

write :5 in command mode

or 5G

### **Question 7:**

from question 6 we are on line 5

In command mode press dd to delete line

### **Question 8:**

press A to write at the end of line

**Question 33: What are the minimum permission needed for**

**Question 34: to copy a directory**

**for the source :**

execute and read

**for the target:**

execute and write

**Question 35: to copy a file**

**for the source :**

read

**for the target:**

if the file doesn't exist then I am the owner and I don't need any permission

if the file exist I need write permission

**Question 36. Delete a file**

No permissions

**Question 37. Change to a directory**

execute permission to act as a directory

**Question 38. List a directory content**

read only : we can use ls

read and execute : ls -l

-l long format

### **Question 39. View a file content**

read

### **Question 40. Modify a file content**

write

### **Question 42. What is the difference between the “x” permission for a file and for a directory**

execute in a directory gives us permission to go into the directory  
while execute in file gives us permission to run the file if it is executable

### **Question 19:**

rahma@rahma-Lenovo:~\$ df -h

or

rahma@rahma-Lenovo:~\$ df -ha to show all files including pseudo, duplicate,  
inaccessible file systems

the physical hard drive are listed as /dev/sda so the one that has the most free disk  
space is /home with 20G available space

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	3.9G	0	3.9G	0%	/dev

```

tmpfs      786M 1.9M 785M 1% /run
/dev/sda11  22G 8.0G 13G 39% /
tmpfs      3.9G 27M 3.9G 1% /dev/shm
tmpfs      5.0M 4.0K 5.0M 1% /run/lock
tmpfs      3.9G  0 3.9G 0% /sys/fs/cgroup
/dev/loop1  56M 56M  0 100% /snap/core18/2128
/dev/loop4  33M 33M  0 100% /snap/snapd/12704
/dev/loop3 219M 219M  0 100% /snap/gnome-3-34-1804/72
/dev/loop5  66M 66M  0 100% /snap/gtk-common-themes/1515
/dev/loop0 128K 128K  0 100% /snap/bare/5
/dev/loop2  56M 56M  0 100% /snap/core18/2246
/dev/loop7  33M 33M  0 100% /snap/snapd/13640
/dev/loop6  66M 66M  0 100% /snap/gtk-common-themes/1519
/dev/loop8  51M 51M  0 100% /snap/snap-store/547
/dev/sda8   3.7G 156M 3.4G 5% /boot
/dev/sda10  22G 1.1G 20G 6% /home
/dev/sda1   256M 43M 214M 17% /boot/efi
tmpfs      786M 68K 786M 1% /run/user/1000
/dev/sdb1   30G 2.9G 27G 10% /media/rahma/UBUNTU 20_0

```

### Question 20:

rahma@rahma-Lenovo:~\$ du -h / |sort  
sort to get from lowest to highest

### Question 21:

rahma@rahma-Lenovo:~\$ du -h /home |sort -r  
-r reverse sort