

1.

```
melikamohammadifakhar-99522086@ubuntu:~$ last -4 |cut -d ' ' -f 1 | head -n -2
melikamo
melikamo
melikamo
melikamo
melikamohammadifakhar-99522086@ubuntu:~$ last -4 |cut -d ' ' -f 1 | head -n -2 |
wc -c
36
```

2.

```
melikamohammadifakhar-99522086@ubuntu: ~
melikamohammadifakhar-99522086@ubuntu:~$ sudo lastb -4 | head -n -2 > badlogins.
txt
[sudo] password for melikamohammadifakhar-99522086:
melikamohammadifakhar-99522086@ubuntu:~$ cat badlogins.txt
melikamo tty8      :1      Tue Apr 11 12:33 - 12:33 (00:00)
melikamo tty8      :1      Tue Apr 11 12:32 - 12:32 (00:00)
melikamo tty8      :1      Tue Apr 11 12:32 - 12:32 (00:00)
melikamo tty7      :0      Tue Apr 11 12:31 - 12:31 (00:00)
melikamohammadifakhar-99522086@ubuntu:~$ wc -l badlogins.txt
4 badlogins.txt
melikamohammadifakhar-99522086@ubuntu:~$ wc -w badlogins.txt
38 badlogins.txt
melikamohammadifakhar-99522086@ubuntu:~$
```

3.

```
melikamohammadifakhar-99522086@ubuntu: ~
melikamohammadifakhar-99522086@ubuntu:~$ echo -e "this is a test\nthis is a line\nthis is a student\nthis is a backpack" >q3.txt
melikamohammadifakhar-99522086@ubuntu:~$ cat q3.txt
this is a test
this is a line
this is a student
this is a backpack
melikamohammadifakhar-99522086@ubuntu:~$ read -p "please insert a word location
:"
please insert a word location : 2
melikamohammadifakhar-99522086@ubuntu:~$ echo $REPLY
2
melikamohammadifakhar-99522086@ubuntu:~$ cut -d ' ' -f $REPLY q3.txt
is
is
is
is
is
melikamohammadifakhar-99522086@ubuntu:~$
```

4.

```
melikamohammadifakhar-99522086@ubuntu: ~
melikamohammadifakhar-99522086@ubuntu:~$ read -p "please inter a hostname : "
please inter a hostname : 99522086MOHAMMADI
melikamohammadifakhar-99522086@ubuntu:~$ sudo hostname $REPLY
melikamohammadifakhar-99522086@ubuntu:~$ hostname
99522086MOHAMMADI
```

```
melikamohammadifakhar-99522086@ubuntu: ~  
melikamohammadifakhar-99522086@ubuntu:~$ last -6  
melikamo tty8 :1 Tue Apr 11 12:33 gone - no logout  
guest-lj tty7 :0 Tue Apr 11 12:32 gone - no logout  
guest-gj tty7 :0 Tue Apr 11 12:31 - 12:32 (00:00)  
melikamo tty7 :0 Tue Apr 11 12:26 - 12:31 (00:04)  
melikamo tty7 :0 Tue Apr 11 12:26 - 12:26 (00:00)  
melikamo tty7 :0 Tue Apr 11 12:25 - 12:25 (00:00)  
wtmp begins Tue Apr 11 12:24:27 2023  
  
melikamohammadifakhar-99522086@99522086MOHAMMADI: ~  
melikamohammadifakhar-99522086@99522086MOHAMMADI:~$ last -6 |cut -d '-' -f 2 |cu  
t -d ' ' -f 4 |head -n -2 | tail -n -5  
(00:00)  
(00:00)  
(00:18)
```