



دانشکده مهندسی کامپیوتر

آزمایشگاه سیستم عامل

تمرین جلسه چهارم

استاد : دکتر شیخی

پوریا رحیمی (۹۹۵۲۱۲۸۹)

Q1 )


```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ last -n 4  
rahimi_9 tty2          tty2          Tue Apr 11 10:21    still logged in  
reboot_ system boot    5.19.0-35-generi Tue Apr 11 10:20    still running  
rahimi_9 tty2          tty2          Sat Apr 8 14:46 -  down    (00:02)  
reboot_ system boot    5.19.0-35-generi Sat Apr 8 14:46 - 14:49  (00:03)  
  
wtmp begins Wed Feb 22 12:58:30 2023  
rahimi_99521289@99521289:~$ last -n 4 | head -n 4 | cut -d ' ' -f1 | wc -c  
32  
rahimi_99521289@99521289:~$ last -n 4 | head -n 4 | cut -d ' ' -f1 | awk '{print length}'  
8  
6  
8  
6  
rahimi_99521289@99521289:~$
```

Q2 )

rahimi\_99521289@99521289: ~

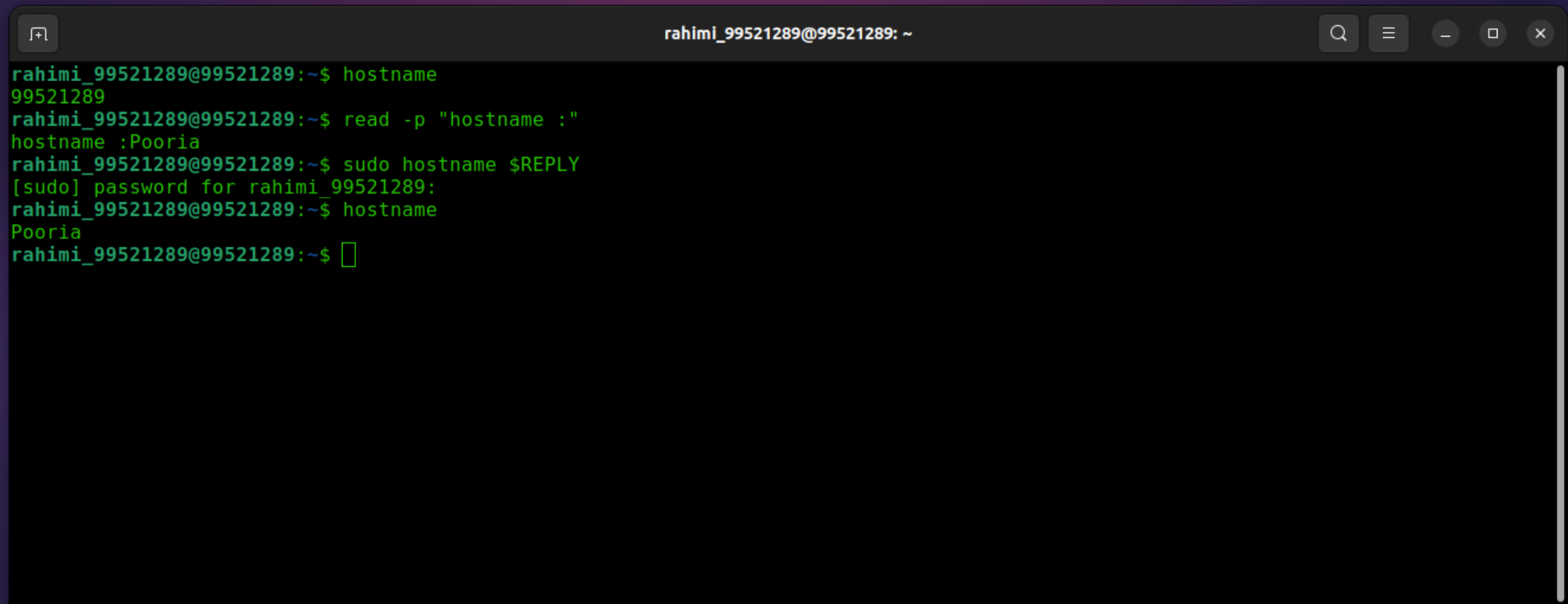
```
rahimi_99521289@99521289:~$ tail -n 4 /var/log/auth.log > badlogins.txt
rahimi_99521289@99521289:~$ cat badlogins.txt
Apr 11 11:27:33 99521289 sudo: pam_unix(sudo:auth): authentication failure; logname= uid=1000 euid=0 tty=/dev/pts/0 ruser=rahimi_9
9521289 rhost= user=rahimi_99521289
Apr 11 11:28:43 99521289 sudo: pam_unix(sudo:auth): conversation failed
Apr 11 11:28:43 99521289 sudo: pam_unix(sudo:auth): auth could not identify password for [rahimi_99521289]
Apr 11 11:28:43 99521289 sudo: rahimi_99521289 : 1 incorrect password attempt ; TTY=pts/0 ; PWD=/home/rahimi_99521289 ; USER=root
; COMMAND=/usr/bin/lastb -n 4
rahimi_99521289@99521289:~$ wc -lw badlogins.txt
 4 57 badlogins.txt
rahimi_99521289@99521289:~$ wc -l badlogins.txt
4 badlogins.txt
rahimi_99521289@99521289:~$ wc -w badlogins.txt
57 badlogins.txt
rahimi_99521289@99521289:~$
```

Q3 )



```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ cat > ex.txt  
Hello, my name is Pooria  
and I am interested in computer science  
and I want to become a hacker  
and ...^C  
rahimi_99521289@99521289:~$ read -p "Enter index : "  
Enter index : 2  
rahimi_99521289@99521289:~$ cat ex.txt | cut -d ' ' -f $REPLY  
my  
I  
I  
rahimi_99521289@99521289:~$
```

Q4 )



```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ hostname  
99521289  
rahimi_99521289@99521289:~$ read -p "hostname :"  
hostname :Pooria  
rahimi_99521289@99521289:~$ sudo hostname $REPLY  
[sudo] password for rahimi_99521289:  
rahimi_99521289@99521289:~$ hostname  
Pooria  
rahimi_99521289@99521289:~$
```

Q5 )

```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ last -n 7 | head -n 7 | tail -n 5 | cut -d '(' -f2 | cut -d ')' -f1  
00:02  
00:03  
00:16  
00:16  
01:25  
rahimi_99521289@99521289:~$
```