



دانشکده مهندسی کامپیوتر

آزمایشگاه سیستم عامل

تمرین جلسه ششم

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Q1)

```
rahimi_99521289@99521289: /
rahimi_99521289@99521289:/$ sudo tar -cvzf /root/backup.tar.gz /home/rahimi_99521289/
tar: Removing leading '/' from member names
/home/rahimi_99521289/
/home/rahimi_99521289/PycharmProjects/
/home/rahimi_99521289/PycharmProjects/CA2/
/home/rahimi_99521289/PycharmProjects/CA2/EmailLexer.g4
/home/rahimi_99521289/PycharmProjects/CA2/.idea/
/home/rahimi_99521289/PycharmProjects/CA2/.idea/inspectionProfiles/
/home/rahimi_99521289/PycharmProjects/CA2/.idea/inspectionProfiles/Project_Default.xml
/home/rahimi_99521289/PycharmProjects/CA2/.idea/inspectionProfiles/profiles_settings.xml
/home/rahimi_99521289/PycharmProjects/CA2/.idea/.gitignore
/home/rahimi_99521289/PycharmProjects/CA2/.idea/workspace.xml
/home/rahimi_99521289/PycharmProjects/CA2/.idea/misc.xml
/home/rahimi_99521289/PycharmProjects/CA2/.idea/modules.xml
/home/rahimi_99521289/PycharmProjects/CA2/.idea/CA2.iml
/home/rahimi_99521289/PycharmProjects/CA2/code.java
/home/rahimi_99521289/PycharmProjects/CA2/main.py
/home/rahimi_99521289/PycharmProjects/Class_Q4/
/home/rahimi_99521289/PycharmProjects/Class_Q4/GoLexer.g4
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/inspectionProfiles/
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/inspectionProfiles/Project_Default.xml
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/inspectionProfiles/profiles_settings.xml
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/.gitignore
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/workspace.xml
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/misc.xml
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/modules.xml
/home/rahimi_99521289/PycharmProjects/Class_Q4/.idea/Class_Q4.iml
/home/rahimi_99521289/PycharmProjects/Class_Q4/test.go
/home/rahimi_99521289/PycharmProjects/Class_Q4/GoParser.g4
/home/rahimi_99521289/PycharmProjects/Class_Q4/main.py
/home/rahimi_99521289/PycharmProjects/Class_Q4/gen/
/home/rahimi_99521289/PycharmProjects/Class_Q4/gen/GoParserVisitor.py
```

Q2)

```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ sudo cat /etc/passwd | cut -d : -f1,6 > people.txt  
rahimi_99521289@99521289:~$ tar -cf people.tar.gz people.txt  
rahimi_99521289@99521289:~$ ls  
badlogins.txt  Downloads  grade.txt  people.txt  PycharmProjects  test.txt  
Desktop        ex.txt      Music      Pictures    snap             Videos  
Documents      google-chrome-stable_current_amd64.deb  people.tar.gz  Public       Templates  
rahimi_99521289@99521289:~$ cat people.txt  
root:/root  
daemon:/usr/sbin  
bin:/bin  
sys:/dev  
sync:/bin  
games:/usr/games  
man:/var/cache/man  
lp:/var/spool/lpd  
mail:/var/mail  
news:/var/spool/news  
uucp:/var/spool/uucp  
proxy:/bin  
www-data:/var/www  
backup:/var/backups  
list:/var/list  
irc:/run/ircd  
gnats:/var/lib/gnats  
nobody:/nonexistent  
systemd-network:/run/systemd  
systemd-resolve:/run/systemd  
messagebus:/nonexistent  
systemd-timesync:/run/systemd  
syslog:/home/syslog  
_apt:/nonexistent  
tss:/var/lib/tpm  
uidd:/run/uidd
```

Q3)

```
rahimi_99521289@99521289: ~  
# /etc/crontab: system-wide crontab  
# Unlike any other crontab you don't have to run the `crontab`  
# command to install the new version when you edit this file  
# and files in /etc/cron.d. These files also have username fields,  
# that none of the other crontabs do.  
  
SHELL=/bin/sh  
# You can also override PATH, but by default, newer versions inherit it from the environment  
#PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin  
  
# Example of job definition:  
# .----- minute (0 - 59)  
# | .----- hour (0 - 23)  
# | | .----- day of month (1 - 31)  
# | | | .----- month (1 - 12) OR jan,feb,mar,apr ...  
# | | | | .---- day of week (0 - 6) (Sunday=0 or 7) OR sun,mon,tue,wed,thu,fri,sat  
# | | | | |  
# * * * * * user-name command to be executed  
17 * * * * root cd / && run-parts --report /etc/cron.hourly  
25 6 * * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )  
47 6 * * 7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )  
52 6 1 * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )  
  
0 22 * * 5 rm -rf /tmp/*  
  
#  
~  
~  
~  
~  
~  
~
```

Q4 )

```
rahimi_99521289@99521289: ~  
rahimi_99521289@99521289:~$ at now + 5 min  
warning: commands will be executed using /bin/sh  
at Tue May  2 18:39:00 2023  
at> date "+%Y-%m-%d %H:%M:%S" > test.txt  
at> <EOT>  
job 5 at Tue May  2 18:39:00 2023  
rahimi_99521289@99521289:~$ cat test.txt  
2023-05-02 18:39:00  
rahimi_99521289@99521289:~$
```