

به نام خدا

تمرین جلسه ششم

فرزان رحمانی ۹۹۵۲۱۲۷۱

۱- از دستور زیر استفاده می کنیم:

```
sudo tar -czvf /root/backup.tar.gz /home/farzanrahmani_99521271/
```

```
farzanrahmani_99521271@DESKTOP-955QSI1: $ sudo ls /root
snap
farzanrahmani_99521271@DESKTOP-955QSI1: $ sudo tar -czvf /root/backup.tar.gz /home/farzanrahmani_99521271/
tar: Removing leading '/' from member names
/home/farzanrahmani_99521271/
/home/farzanrahmani_99521271/.landscape/
/home/farzanrahmani_99521271/.landscape/sysinfo.log
/home/farzanrahmani_99521271/.sudo_as_admin_successful
/home/farzanrahmani_99521271/.cache/
/home/farzanrahmani_99521271/.cache/google-chrome/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Cache/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Cache/Cache_Data/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Cache/Cache_Data/index
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Cache/Cache_Data/index-dir/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Cache/Cache_Data/index-dir/the-real-index
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/wasm/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/wasm/index
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/wasm/index-dir/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/wasm/index-dir/the-real-index
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/js/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/js/index
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/js/index-dir/
/home/farzanrahmani_99521271/.cache/google-chrome/Default/Code Cache/js/index-dir/the-real-index
/home/farzanrahmani_99521271/.cache/mesa_shader_cache/
/home/farzanrahmani_99521271/.cache/mesa_shader_cache/index
/home/farzanrahmani_99521271/Desktop/
/home/farzanrahmani_99521271/Desktop/text.txt
/home/farzanrahmani_99521271/Desktop/Farzan/
/home/farzanrahmani_99521271/Desktop/grade.txt
/home/farzanrahmani_99521271/Desktop/test2.txt
/home/farzanrahmani_99521271/Desktop/test.txt
/home/farzanrahmani_99521271/Desktop/myfile.txt
/home/farzanrahmani_99521271/Desktop/abbas.txt
/home/farzanrahmani_99521271/Desktop/badlogins.txt
/home/farzanrahmani_99521271/Desktop/hello.txt
/home/farzanrahmani_99521271/Desktop/finded.txt
/home/farzanrahmani_99521271/Desktop/open_farzan.txt
/home/farzanrahmani_99521271/Desktop/farzan.go
```

```

/home/farzanrahmani 99521271/.config/enchant/en_US.dic
/home/farzanrahmani 99521271/.config/enchant/en_US.exc
/home/farzanrahmani 99521271/.config/gedit/
/home/farzanrahmani 99521271/.config/gedit/accels
/home/farzanrahmani 99521271/.config/gtk-3.0/
/home/farzanrahmani 99521271/.config/ibus/
/home/farzanrahmani 99521271/.config/ibus/bus/
/home/farzanrahmani 99521271/.config/pulse/
/home/farzanrahmani 99521271/.config/pulse/8f56c87517f14d7f3b4ce6996331898b-default-sink
/home/farzanrahmani 99521271/.config/pulse/8f56c87517f14d7f3b4ce6996331898b-card-database.tdb
/home/farzanrahmani 99521271/.config/pulse/8f56c87517f14d7f3b4ce6996331898b-default-source
/home/farzanrahmani 99521271/.config/pulse/8f56c87517f14d7f3b4ce6996331898b-stream-volumes.tdb
/home/farzanrahmani 99521271/.config/pulse/cookie
/home/farzanrahmani 99521271/.config/pulse/8f56c87517f14d7f3b4ce6996331898b-device-volumes.tdb
/home/farzanrahmani 99521271/.config/mimeapps.list
/home/farzanrahmani 99521271/test.txt
/home/farzanrahmani 99521271/myfile.txt
/home/farzanrahmani 99521271/.profile
/home/farzanrahmani 99521271/badlogins.txt
/home/farzanrahmani 99521271/.bash_logout
/home/farzanrahmani 99521271/.viminfo
/home/farzanrahmani 99521271/.bashrc
/home/farzanrahmani 99521271/test
/home/farzanrahmani 99521271/.test.swp
/home/farzanrahmani 99521271/.vscode/
/home/farzanrahmani 99521271/.vscode/extensions/
/home/farzanrahmani 99521271/.vscode/argv.json
/home/farzanrahmani 99521271/.local/
/home/farzanrahmani 99521271/.local/share/
/home/farzanrahmani 99521271/.local/share/recently-used.xbel
/home/farzanrahmani 99521271/.local/share/applications/
/home/farzanrahmani 99521271/.local/share/applications/mimeapps.list
/home/farzanrahmani 99521271/.local/share/gedit/
/home/farzanrahmani 99521271/.local/share/gedit/gedit-metadata.xml
/home/farzanrahmani 99521271/.dbus/
/home/farzanrahmani 99521271/.dbus/session-bus/
/home/farzanrahmani 99521271/.dbus/session-bus/8f56c87517f14d7f3b4ce6996331898b-0
farzanrahmani 99521271@DESKTOP-9550S11:~$ sudo ls /root
backup.tar.gz snap
farzanrahmani 99521271@DESKTOP-9550S11:~$

```

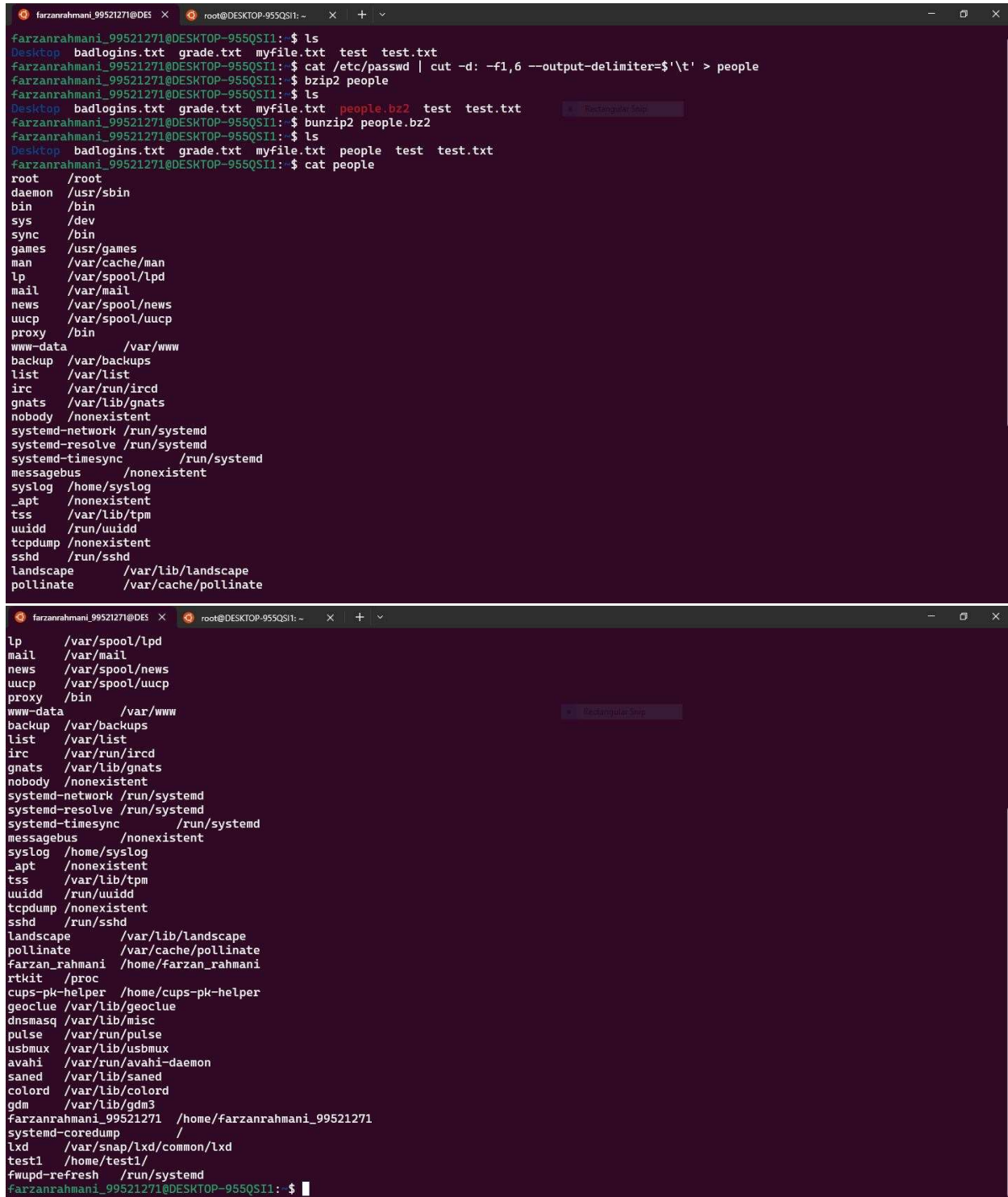
```
farzanrahmani_99521271@DES x root@DESKTOP-955QSI1: ~  
root@DESKTOP-955QSI1:~# ls  
backup.tar.gz  snap  
root@DESKTOP-955QSI1:~#
```

Reklamgün Sleep

۲- از دستور های زیر استفاده می کنیم:

```
cat /etc/passwd | cut -d: -f1,6 --output-delimiter=$'\t' > people
```

```
bzip2 people
```



```
farzanrahmani_99521271@DESKTOP-955QSI1: ~  
farzanrahmani_99521271@DESKTOP-955QSI1: $ ls  
Desktop  badlogins.txt  grade.txt  myfile.txt  test  test.txt  
farzanrahmani_99521271@DESKTOP-955QSI1: $ cat /etc/passwd | cut -d: -f1,6 --output-delimiter=$'\t' > people  
farzanrahmani_99521271@DESKTOP-955QSI1: $ bzip2 people  
farzanrahmani_99521271@DESKTOP-955QSI1: $ ls  
Desktop  badlogins.txt  grade.txt  myfile.txt  people.bz2  test  test.txt  
farzanrahmani_99521271@DESKTOP-955QSI1: $ bunzip2 people.bz2  
farzanrahmani_99521271@DESKTOP-955QSI1: $ ls  
Desktop  badlogins.txt  grade.txt  myfile.txt  people  test  test.txt  
farzanrahmani_99521271@DESKTOP-955QSI1: $ cat people  
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        /var/run/ircd  
gnats      /var/lib/gnats  
nobody     /nonexistent  
systemd-network /run/systemd  
systemd-resolve /run/systemd  
systemd-timesync /run/systemd  
messagebus /nonexistent  
syslog     /home/syslog  
_apt       /nonexistent  
tss        /var/lib/tpm  
uuid       /run/uuid  
tcpdump    /nonexistent  
sshd       /run/sshd  
landscape  /var/lib/landscape  
pollinate  /var/cache/pollinate  
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        /var/run/ircd  
gnats      /var/lib/gnats  
nobody     /nonexistent  
systemd-network /run/systemd  
systemd-resolve /run/systemd  
systemd-timesync /run/systemd  
messagebus /nonexistent  
syslog     /home/syslog  
_apt       /nonexistent  
tss        /var/lib/tpm  
uuid       /run/uuid  
tcpdump    /nonexistent  
sshd       /run/sshd  
landscape  /var/lib/landscape  
pollinate  /var/cache/pollinate  
farzan_rahmani /home/farzan_rahmani  
rtkit      /proc  
cups-pk-helper /home/cups-pk-helper  
geoclue    /var/lib/geoclue  
dnsmasq    /var/lib/misc  
pulse      /var/run/pulse  
usbmux     /var/lib/usbmux  
avahi      /var/run/avahi-daemon  
saned      /var/lib/saned  
colord     /var/lib/colord  
gdm        /var/lib/gdm3  
farzanrahmani_99521271 /home/farzanrahmani_99521271  
systemd-coredump /  
lxd        /var/snap/lxd/common/lxd  
test1     /home/test1/  
fwupd-refresh /run/systemd  
farzanrahmani_99521271@DESKTOP-955QSI1: $
```

۳- برای اجرای دستورات به صورت دوره‌ای در لینوکس از cron job استفاده می‌شود. در اینجا برای پاک کردن محتویات دایرکتوری tmp/ هر جمعه ساعت ۱۰ شب، می‌توانیم مراحل زیر را انجام دهید:

۱. با ویرایشگر crontab را باز کنیم.(مثلا با vi)

۲. به انتهای فایل اضافه کنید:

```
0 22 * * 5 rm -rf /tmp/*
```

این دستور برای هر جمعه (۵) ساعت ۱۰ شب (۲۲:۰۰) اجرا شده و تمامی محتویات دایرکتوری tmp/ را پاک می‌کند.

```
farzanrahmani_99521271@DESKTOP-955QSI1: ~  
farzanrahmani_99521271@DESKTOP-955QSI1:~$ vi /etc/crontab  
  
# /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  
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 farzanrahmani_99521271 rm -rf /tmp/*  
#  
#  
#  
#  
#  
#  
#  
#  
#  
#
```

همچنین می‌توان از طریق زیر نیز آن را انجام دهیم:

```
farzanrahmani_99521271@DESKTOP-955QSI1: ~  
farzanrahmani_99521271@DESKTOP-955QSI1:~$ crontab -e
```

```
farzanrahmani_99521271@DE5  X  root@DESKTOP-955Q81: ~  X  +  v
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow  command
0 22 * * 5 rm -rf /tmp/*

```

24,25 ALL

```
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ ls
Desktop badlogins.txt grade.txt myfile.txt people
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ echo "date '+%Y-%m-%d %H:%M:%S' > test.txt" | at now + 5 minutes
warning: commands will be executed using /bin/sh
job 6 at Tue May  2 00:15:00 2023
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ ls
Desktop badlogins.txt grade.txt myfile.txt people test.txt
farzanrahmani_99521271@DESKTOP-955QSI1: ~$ cat test.txt
2023-05-02 00:15:00
farzanrahmani_99521271@DESKTOP-955QSI1: ~$
```

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