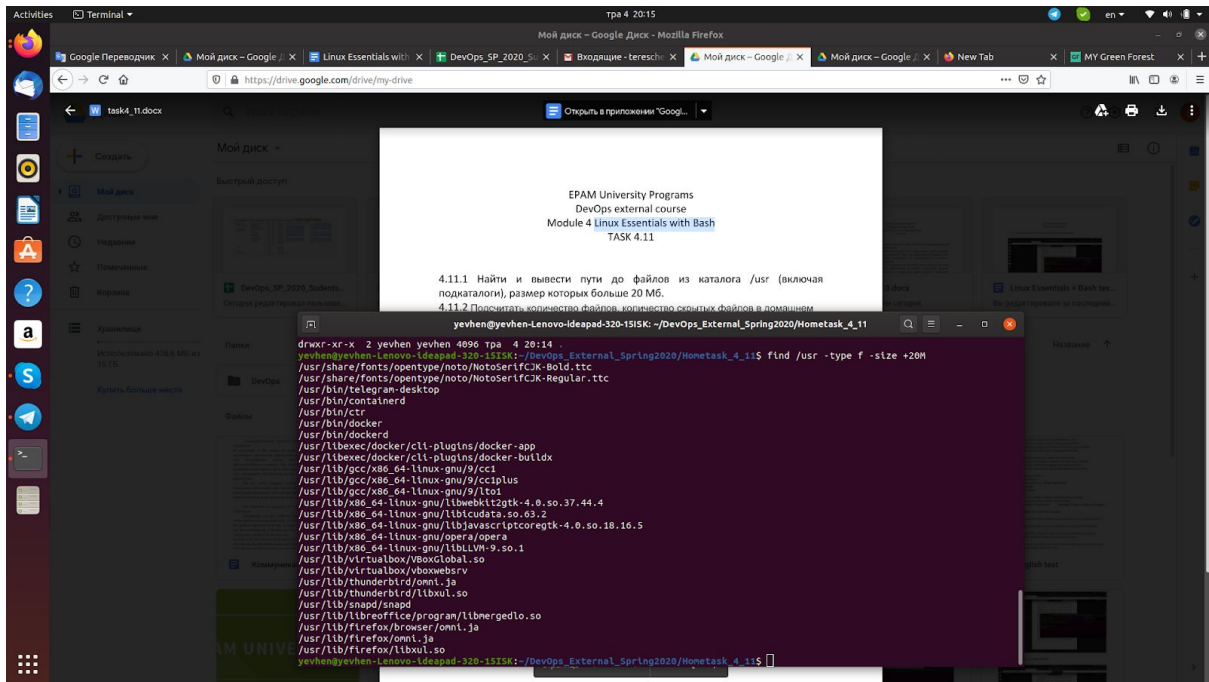
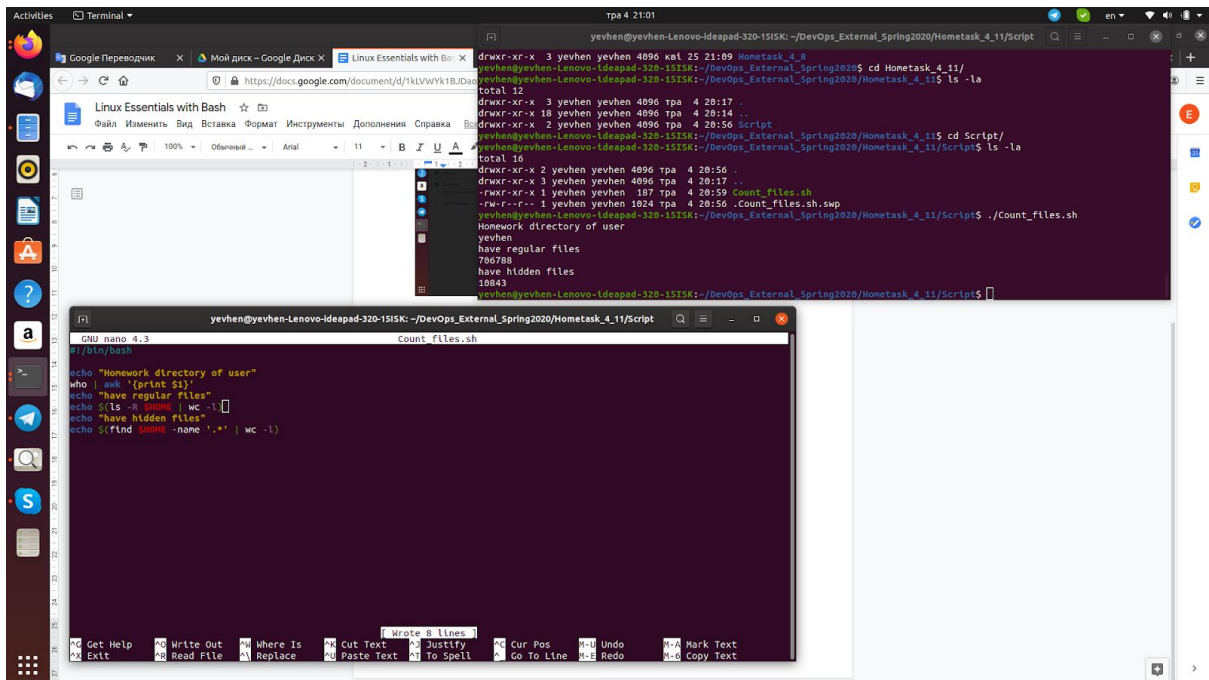


Linux Essentials with Bash

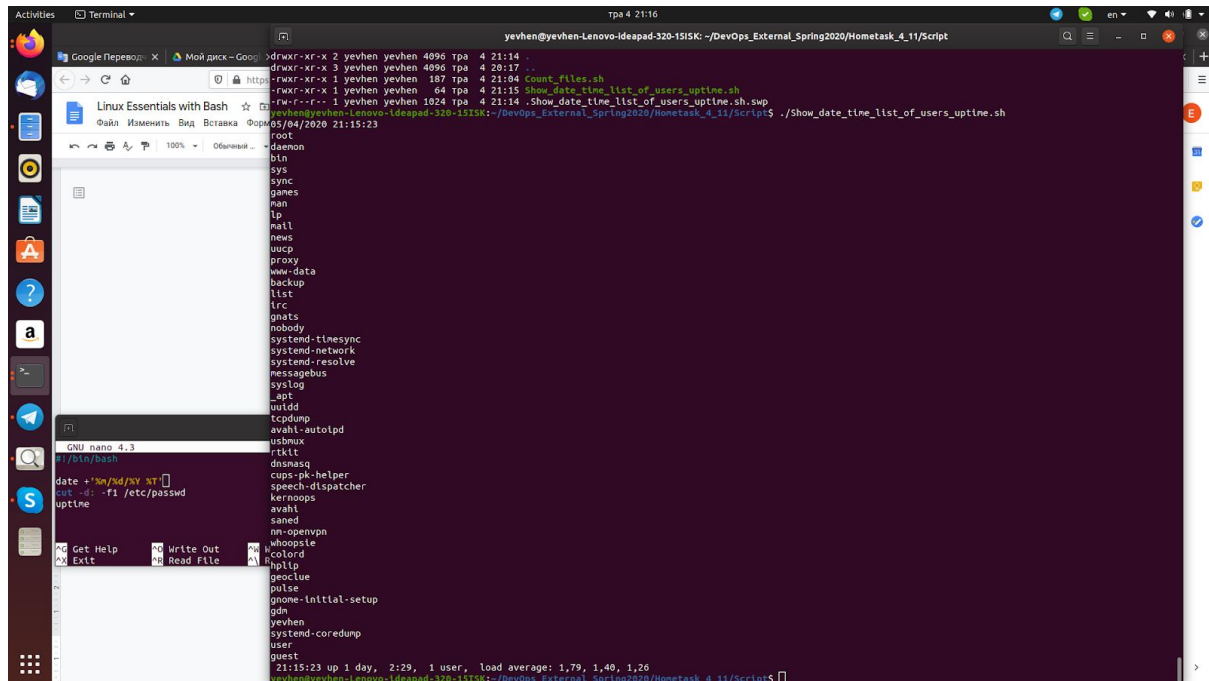
1. Find and show path to the directory /usr with over 20 MB size files.



2. Count files and count hidden files in home dir of user

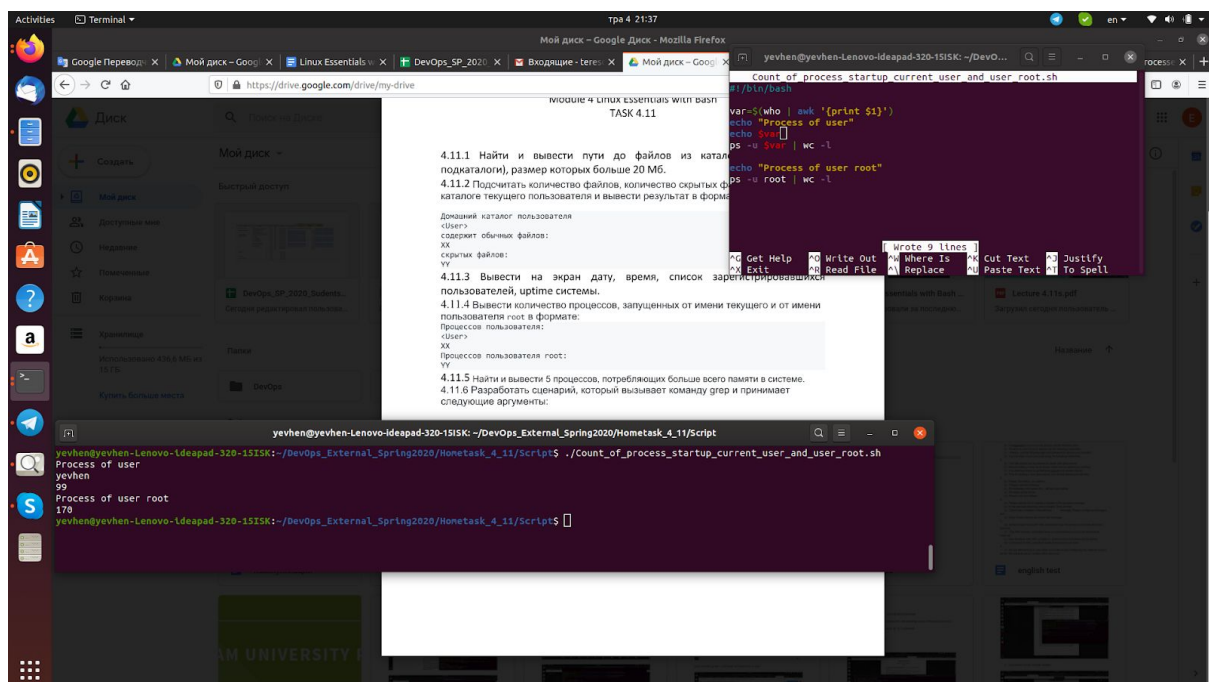


3. Show date and time list of register users and uptime system



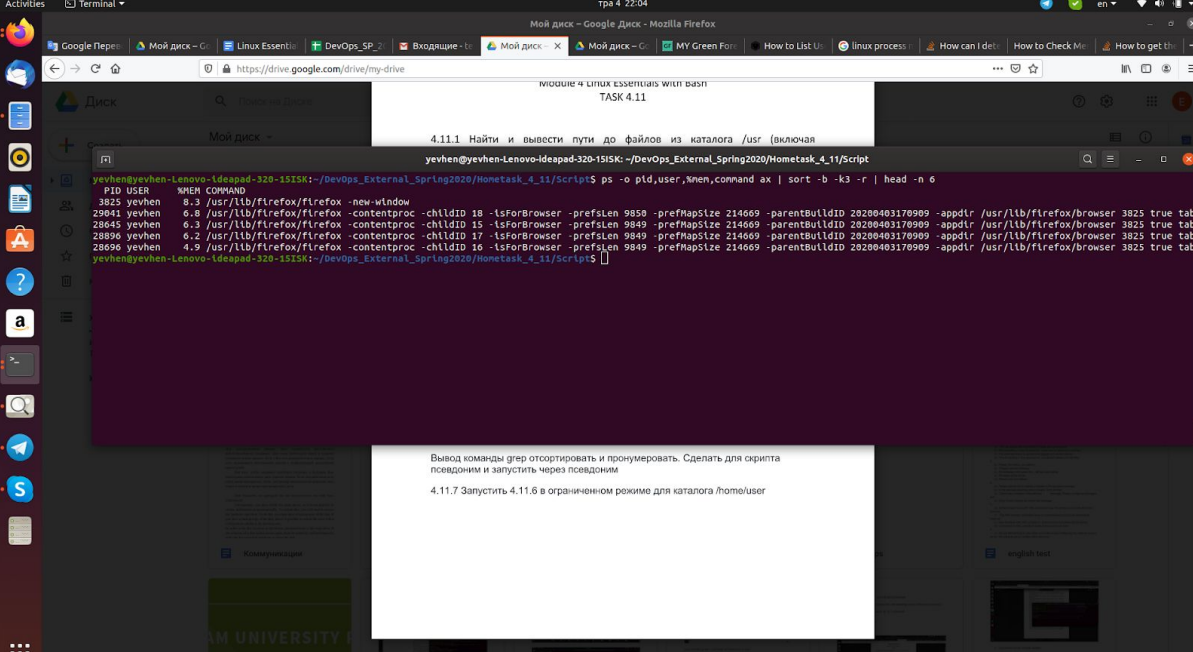
```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./show_date_time_list_of_users_uptime.sh
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-timesync
systemd-network
systemd-resolve
messagebus
syslog
apt
udevd
tcpdump
avahi-autoipd
usbmux
rtkit
dnsmasq
cups-pk-helper
speech-dispatcher
kernoops
avahi
saned
nm-openvpn
whoopie
colord
hplip
geoclue
pulse
gnome-initial-setup
gdm
yevhen
systemd-coredump
user
guest
21:15:23 up 1 day, 2:29, 1 user, load average: 1.79, 1.40, 1.26
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$
```

4. Show count of process start up from current user and user root



```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./Count_of_process_startup_current_user_and_user_root.sh
Process of user
yevhen
99
Process of user root
170
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$
```

5. Search five processes max memory usage



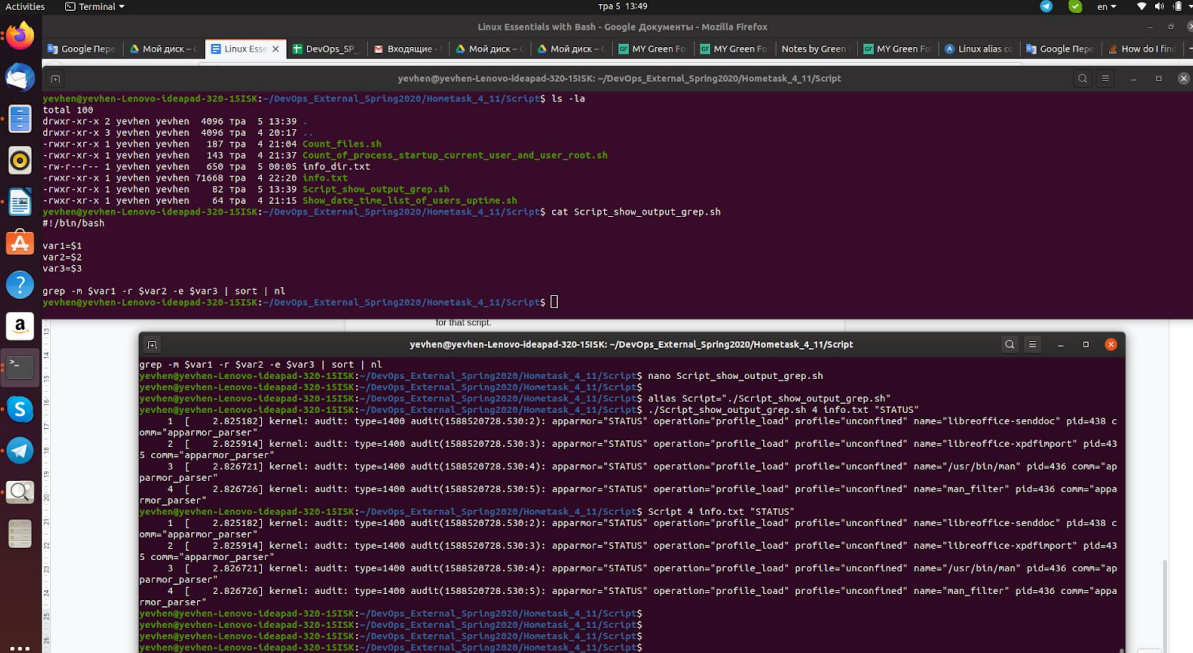
```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ ps -o ppid,user,mmen,command ax | sort -b -k3 -r | head -n 6
```

PID	USER	MMEN	COMMAND
3825	yevhen	6.3	/usr/lib/firefox/firefox -new-window
29641	yevhen	6.8	/usr/lib/firefox/firefox -contentproc -childID 18 -lsForBrowser -prefsLen 9850 -prefMapSize 214669 -parentBuildID 20200403170909 -appdir /usr/lib/firefox/browser 3825 true tab
28645	yevhen	6.3	/usr/lib/firefox/firefox -contentproc -childID 15 -lsForBrowser -prefsLen 9849 -prefMapSize 214669 -parentBuildID 20200403170909 -appdir /usr/lib/firefox/browser 3825 true tab
28896	yevhen	6.2	/usr/lib/firefox/firefox -contentproc -childID 17 -lsForBrowser -prefsLen 9849 -prefMapSize 214669 -parentBuildID 20200403170909 -appdir /usr/lib/firefox/browser 3825 true tab
28696	yevhen	4.9	/usr/lib/firefox/firefox -contentproc -childID 16 -lsForBrowser -prefsLen 9849 -prefMapSize 214669 -parentBuildID 20200403170909 -appdir /usr/lib/firefox/browser 3825 true tab

Вывод команды grep отсортировать и пронумеровать. Сделать для скрипта псевдоним и запустить через псевдоним

4.11.7 Запустить 4.11.6 в ограниченном режиме для каталога /home/user

6. Create script whose use grep and takes those arguments file, search string, max line to show on screen. Output grep command must have sort and enum. Make alias for that script.



```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ ls -la
```

```
total 160
drwxr-xr-x 2 yevhen yevhen 4096 tpa 5 13:39
drwxr-xr-x 3 yevhen yevhen 4096 tpa 4 20:17
-rwxr-xr-x 1 yevhen yevhen 187 tpa 4 21:04 Count_files.sh
-rwxr-xr-x 1 yevhen yevhen 143 tpa 4 21:37 Count_of_process_startup_current_user_and_user_root.sh
-rwxr-xr-x 1 yevhen yevhen 650 tpa 5 00:05 info_dir.txt
-rwxr-xr-x 1 yevhen yevhen 71648 tpa 4 22:20 info.txt
-rwxr-xr-x 1 yevhen yevhen 82 tpa 5 13:39 script_show_output_grep.sh
-rwxr-xr-x 1 yevhen yevhen 64 tpa 4 22:15 Show_date_time_list_of_users_gptline.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ cat Script_show_output_grep.sh
```

```
#!/bin/bash
var1=$1
var2=$2
var3=$3
grep -m $var1 -r $var2 -e $var3 | sort | nl
```

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$
```

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ nano Script_show_output_grep.sh
```

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$
```

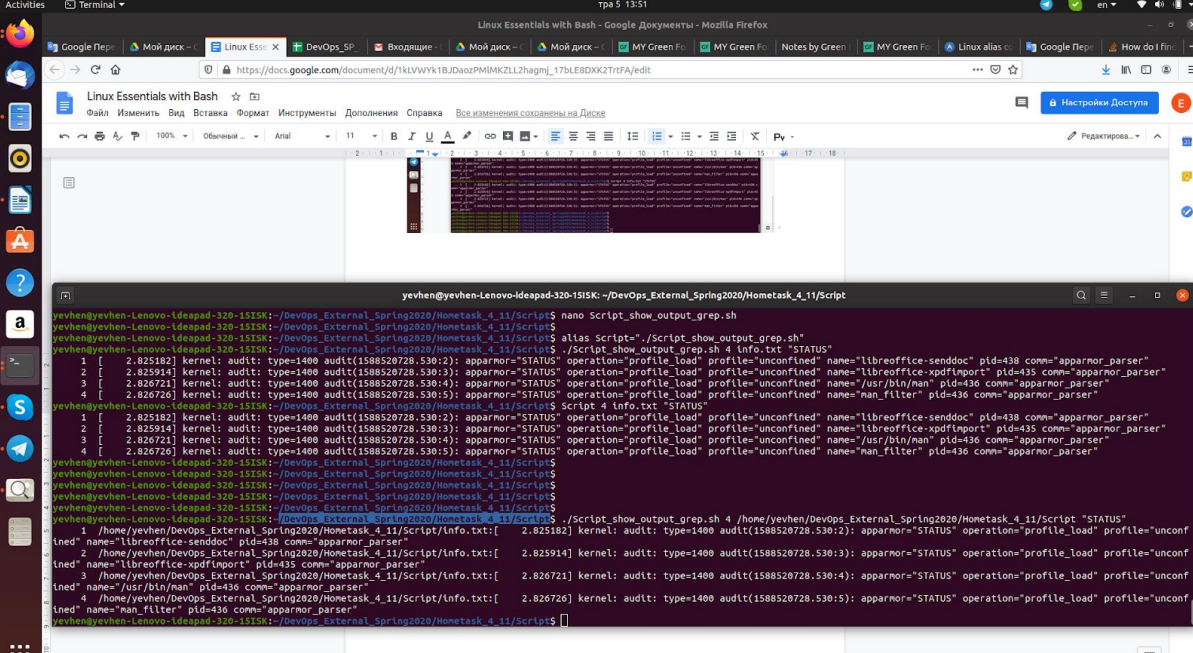
```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ alias Script="/Script_show_output_grep.sh"
```

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./Script_show_output_grep.sh 4 info.txt "STATUS"
```

```
1 [ 2.825182] kernel: audit: type=1400 audit(1588526728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 c
omm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588526728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=43
5 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588526728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="ap
parmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588526728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="appa
rrior_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$ Script 4 info.txt "STATUS"
```

```
1 [ 2.825182] kernel: audit: type=1400 audit(1588526728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 c
omm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588526728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=43
5 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588526728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="ap
parmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588526728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="appa
rrior_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK:~/DevOps_External_Spring2020/Hometask_4_11/Script$
```

7. Run script with grep for /home/user



The screenshot shows a Linux terminal window with the following content:

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ nano Script_show_output_grep.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ alias Script="/.script_show_output_grep.sh"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./script_show_output_grep.sh 4 info.txt "STATUS"
1 [ 2.825182] kernel: audit: type=1400 audit(1588520728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 comm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588520728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=435 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588520728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="apparmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588520728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="apparmor_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./script_show_output_grep.sh 4 info.txt "STATUS"
1 [ 2.825182] kernel: audit: type=1400 audit(1588520728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 comm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588520728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=435 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588520728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="apparmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588520728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="apparmor_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./script_show_output_grep.sh 4 info.txt "STATUS"
1 [ 2.825182] kernel: audit: type=1400 audit(1588520728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 comm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588520728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=435 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588520728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="apparmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588520728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="apparmor_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$ ./script_show_output_grep.sh 4 info.txt "STATUS"
1 [ 2.825182] kernel: audit: type=1400 audit(1588520728.530:2): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-senddoc" pid=438 comm="apparmor_parser"
2 [ 2.825914] kernel: audit: type=1400 audit(1588520728.530:3): apparmor="STATUS" operation="profile_load" profile="unconfined" name="libreoffice-xpdfimport" pid=435 comm="apparmor_parser"
3 [ 2.826721] kernel: audit: type=1400 audit(1588520728.530:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/bin/man" pid=436 comm="apparmor_parser"
4 [ 2.826726] kernel: audit: type=1400 audit(1588520728.530:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_filter" pid=436 comm="apparmor_parser"
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_11/Script$
```