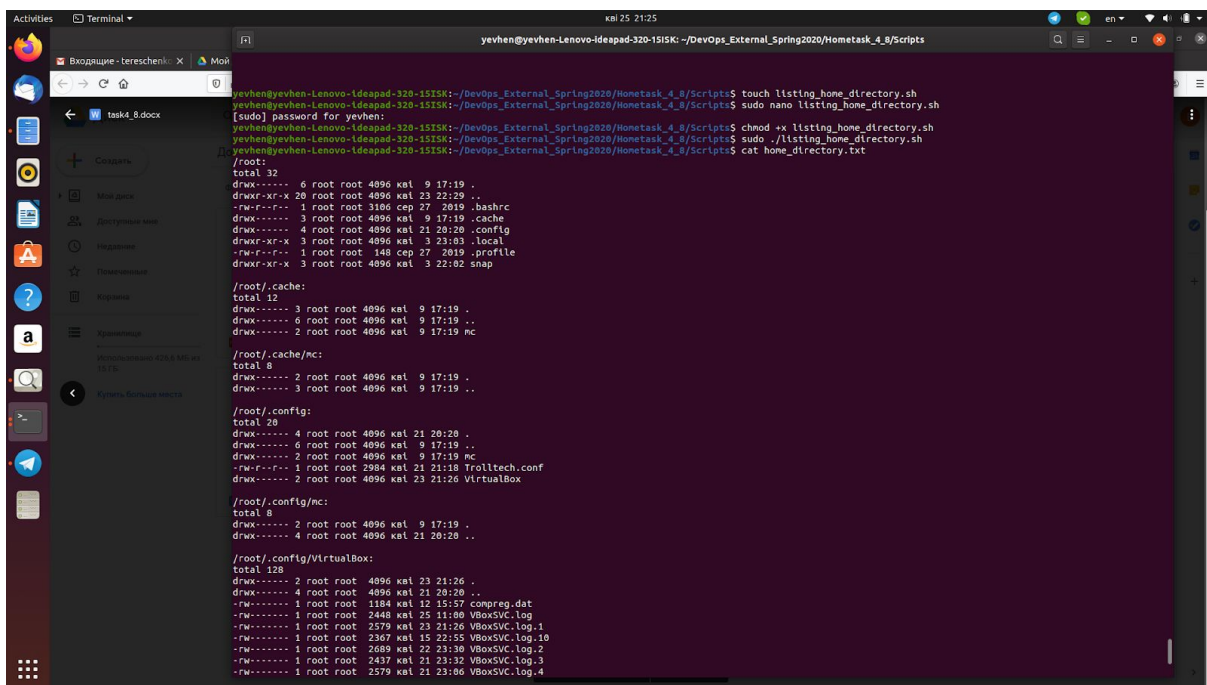
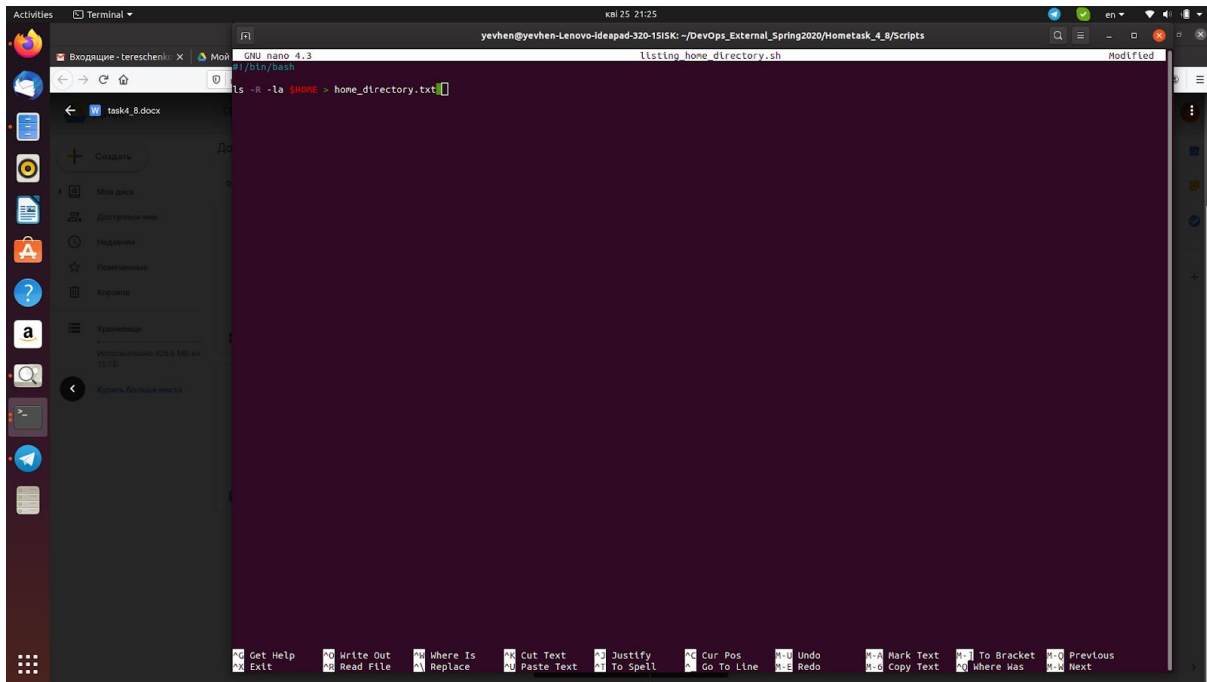


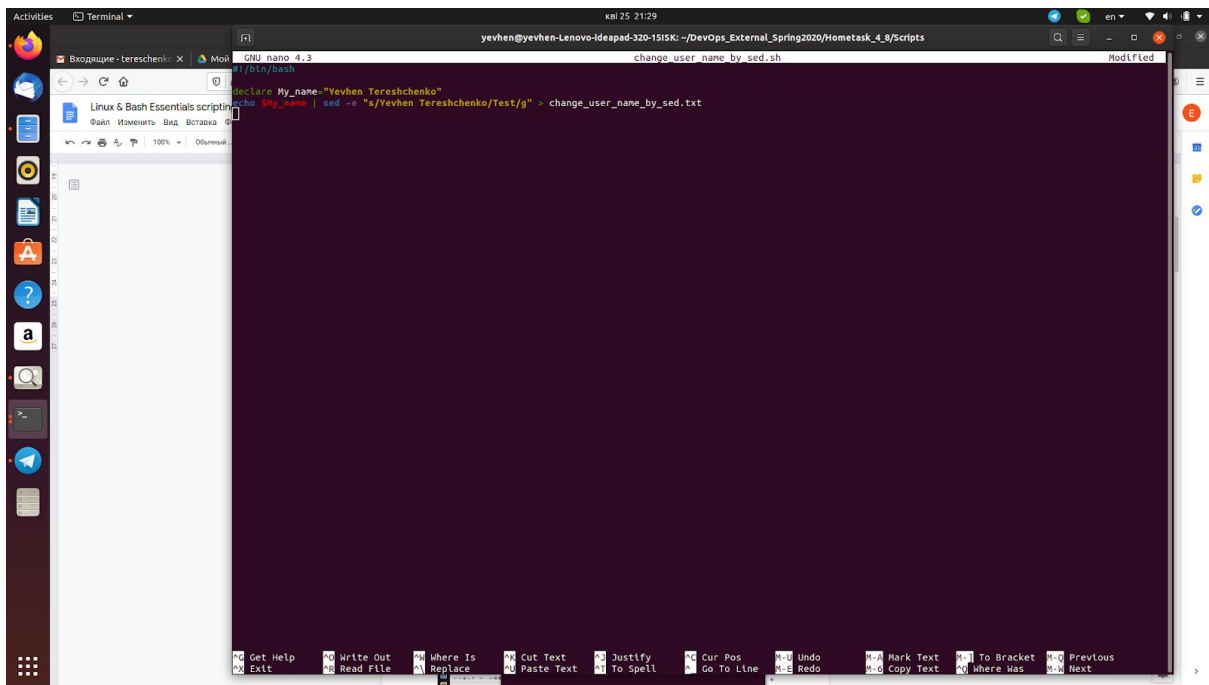
Linux & Bash Essentials

Scripting

1. Create file with result extended recursive listing home directory



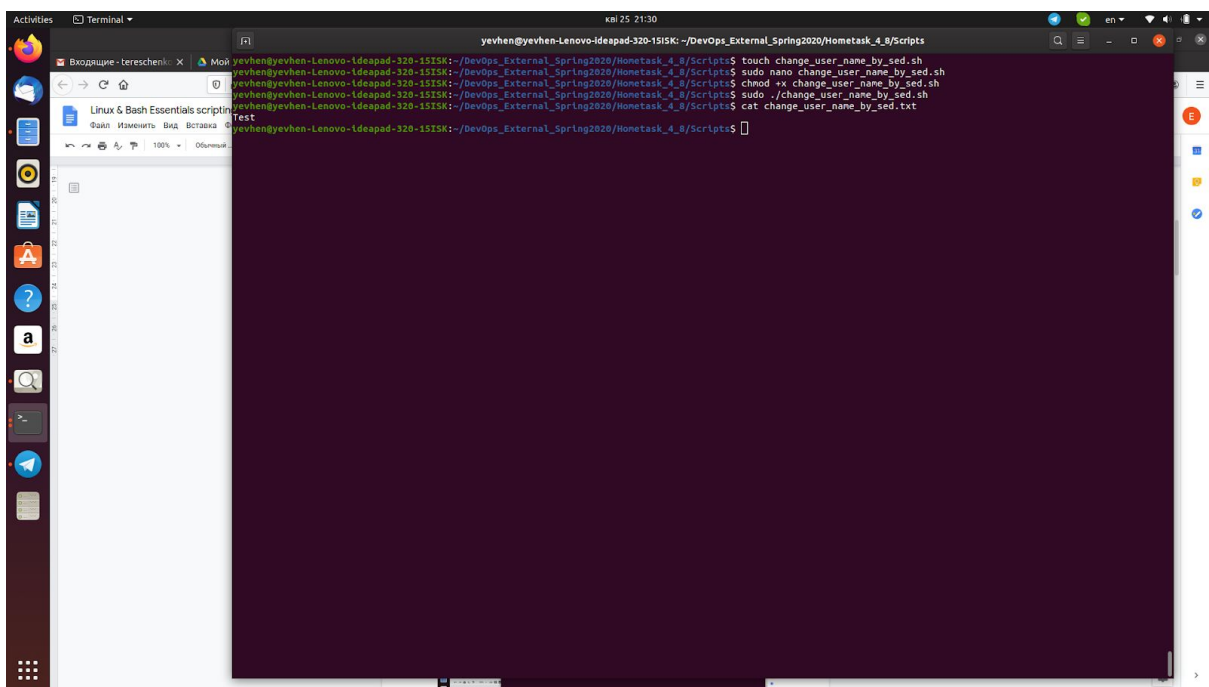
2.a.Change name of user to another with sed.



The screenshot shows a terminal window with the following commands and output:

```
GNU nano 4.3  
#!/bin/bash  
declare My_name="Yevhen Tereshchenko"  
echo $My_name | sed -e "s/yevhen Tereshchenko/Test/g" > change_user_name_by_sed.txt
```

The terminal window is titled "Terminal" and shows the user "yevhen" on a system named "yevhen-Lenovo-Ideapad-320-15ISK". The current directory is "/DevOps_External_Spring2020/Hometask_4_8/Scripts". The terminal output shows the command "change user name by sed.sh" and the file "change_user_name_by_sed.txt" is created.

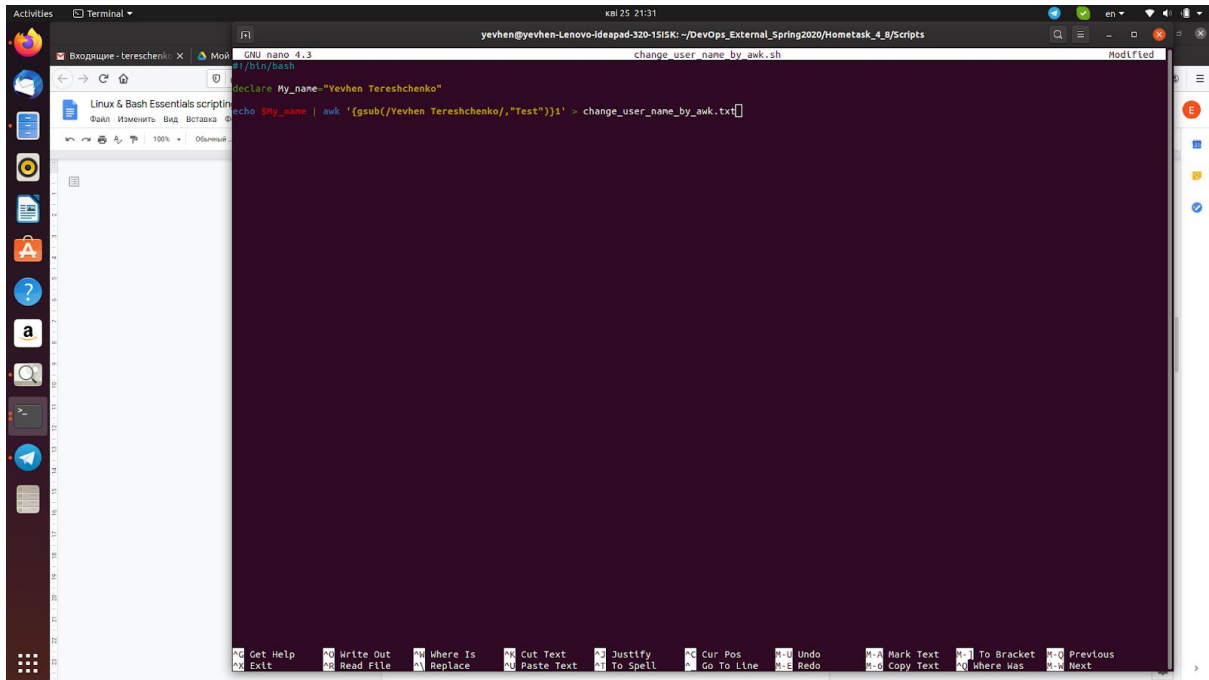


The screenshot shows a terminal window with the following commands and output:

```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ touch change_user_name_by_sed.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo nano change_user_name_by_sed.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ chmod +x change_user_name_by_sed.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo ./change_user_name_by_sed.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ cat change_user_name_by_sed.txt  
Test  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$
```

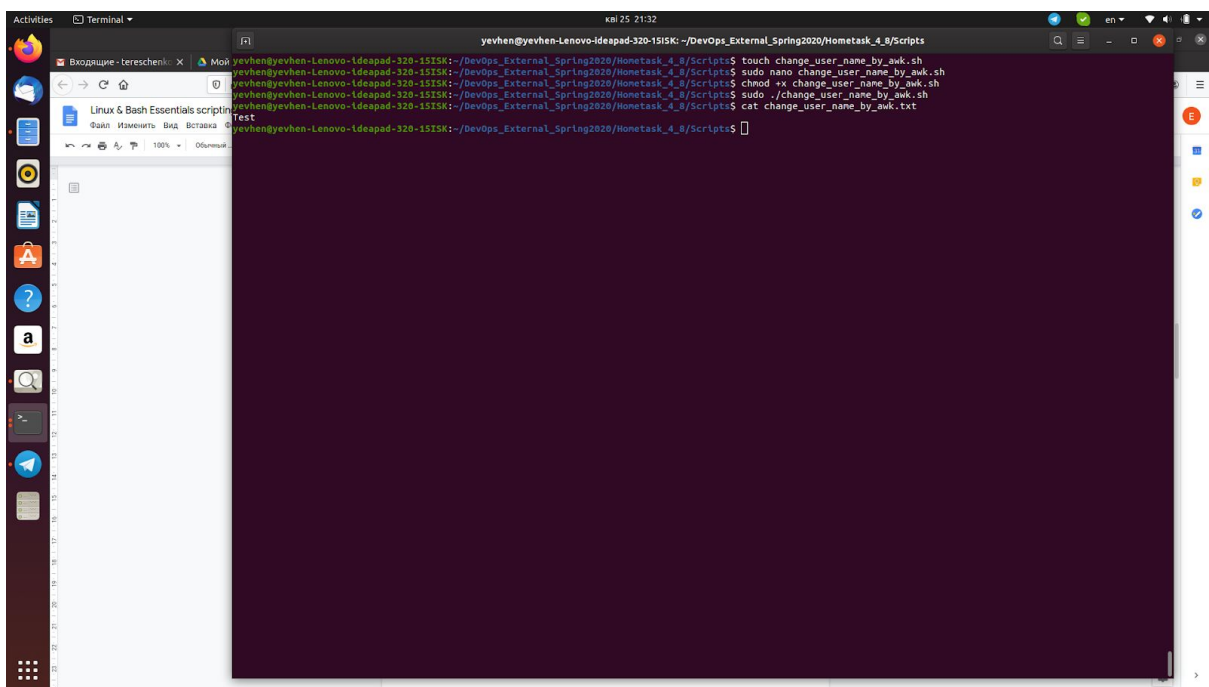
The terminal window is titled "Terminal" and shows the user "yevhen" on a system named "yevhen-Lenovo-Ideapad-320-15ISK". The current directory is "/DevOps_External_Spring2020/Hometask_4_8/Scripts". The terminal output shows the commands "touch change_user_name_by_sed.sh", "chmod +x change_user_name_by_sed.sh", "sudo ./change_user_name_by_sed.sh", and "cat change_user_name_by_sed.txt". The output of the "cat" command is "Test".

2.b.Change name of user to another with awk.



The screenshot shows a terminal window with the GNU nano 4.3 editor open. The script 'change_user_name_by_awk.sh' is being edited. It contains a variable declaration for 'My_name' and an echo command that uses 'awk' to replace 'Yevhen Tereshchenko' with 'Test' in a file named 'change_user_name_by_awk.txt'.


```
#!/bin/bash
declare My_name="Yevhen Tereshchenko"
echo $My_name | awk '{gsub(/Yevhen Tereshchenko/, "Test")}' > change_user_name_by_awk.txt
```



The screenshot shows the terminal window after the script has been executed. The user has run 'touch change_user_name_by_awk.sh', 'sudo nano change_user_name_by_awk.sh', 'chmod +x change_user_name_by_awk.sh', and './change_user_name_by_awk.sh'. Finally, they ran 'cat change_user_name_by_awk.txt' to verify the output, which shows 'Test'.

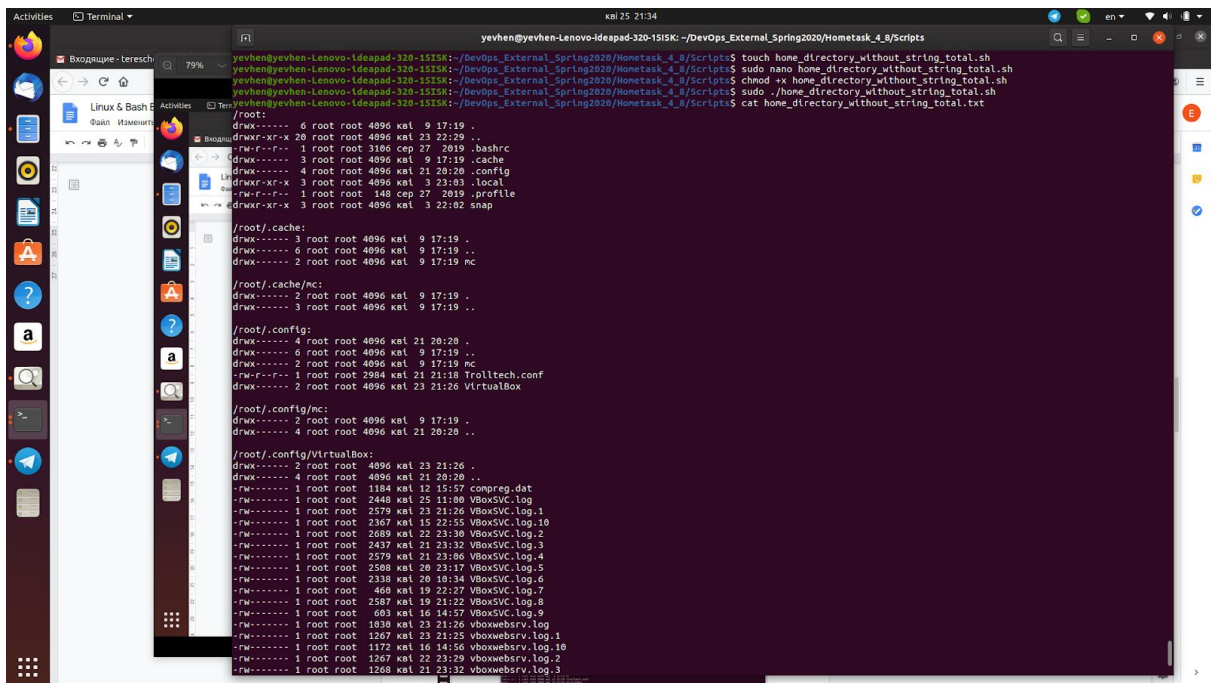
```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ touch change_user_name_by_awk.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo nano change_user_name_by_awk.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ chmod +x change_user_name_by_awk.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ ./change_user_name_by_awk.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ cat change_user_name_by_awk.txt
Test
```

3.Delete string with total quantity of file



The screenshot shows a terminal window with the command `ls -l -la $HOME | sed '/total/d' > home_directory_without_string_total.txt` being executed. The terminal output shows the command being run and the file being created. The terminal window is titled "yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts".

```
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts
GNU nano 4.3 home_directory_without_string_total.sh
Modified
ls -l -la $HOME | sed '/total/d' > home_directory_without_string_total.txt
```



The screenshot shows a terminal window with the command `ls -l -la $HOME | sed '/total/d' > home_directory_without_string_total.txt` being executed. The terminal output shows the command being run and the file being created. The terminal window is titled "yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts".

```
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts
touch home_directory_without_string_total.sh
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo nano home_directory_without_string_total.sh
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ chmod +x home_directory_without_string_total.sh
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo ./home_directory_without_string_total.sh
yevhen@yevhen-Lenovo-IdeaPad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ cat home_directory_without_string_total.txt
drwx----- 6 root root 4096 ksl 9 17:19 .
drwxr-xr-x 20 root root 4096 ksl 23 22:29 ..
-rw-r--r-- 1 root root 3186 cep 27 2019 .bashrc
drwx----- 3 root root 4096 ksl 9 17:19 .cache
drwx----- 4 root root 4096 ksl 21 20:20 .config
drwxr-xr-x 3 root root 4096 ksl 3 23:03 .local
-rw-r--r-- 1 root root 148 cep 27 2019 .profile
drwxr-xr-x 3 root root 4096 ksl 3 22:02 snap

/root/.cache:
drwx----- 3 root root 4096 ksl 9 17:19 .
drwx----- 6 root root 4096 ksl 9 17:19 ..
drwx----- 2 root root 4096 ksl 9 17:19 mc

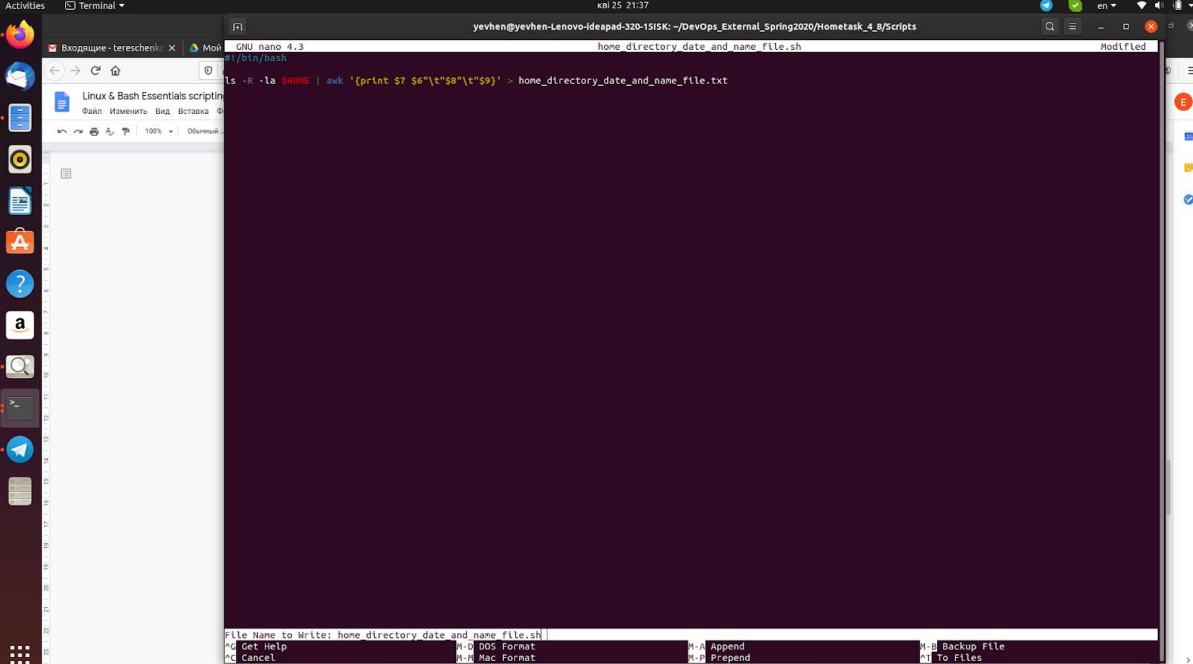
/root/.cache/mc:
drwx----- 2 root root 4096 ksl 9 17:19 .
drwx----- 3 root root 4096 ksl 9 17:19 ..

/root/.config:
drwx----- 4 root root 4096 ksl 21 20:20 .
drwx----- 6 root root 4096 ksl 9 17:19 ..
drwx----- 2 root root 4096 ksl 9 17:19 mc
-rw-r--r-- 1 root root 2984 ksl 21 21:18 Trolltech.conf
drwx----- 2 root root 4096 ksl 23 21:26 VirtualBox

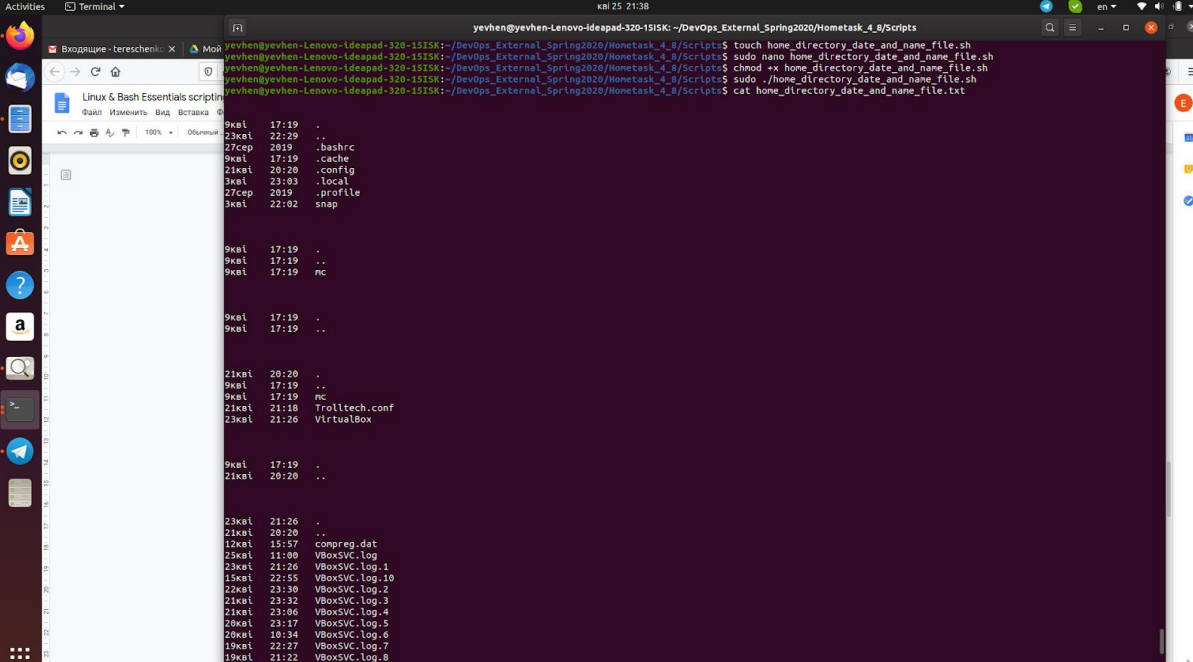
/root/.config/mc:
drwx----- 2 root root 4096 ksl 9 17:19 .
drwx----- 4 root root 4096 ksl 21 20:20 ..

/root/.config/VirtualBox:
drwx----- 2 root root 4096 ksl 23 21:26 .
drwx----- 4 root root 4096 ksl 21 20:20 ..
-rw----- 1 root root 1184 ksl 12 15:57 compreg.dat
-rw----- 1 root root 2448 ksl 25 11:00 VBoxSVC.log
-rw----- 1 root root 2579 ksl 23 21:26 VBoxSVC.log.1
-rw----- 1 root root 2367 ksl 15 22:55 VBoxSVC.log.10
-rw----- 1 root root 2689 ksl 22 23:30 VBoxSVC.log.2
-rw----- 1 root root 2437 ksl 21 23:30 VBoxSVC.log.3
-rw----- 1 root root 2579 ksl 21 23:06 VBoxSVC.log.4
-rw----- 1 root root 2588 ksl 20 23:17 VBoxSVC.log.5
-rw----- 1 root root 2338 ksl 20 16:34 VBoxSVC.log.6
-rw----- 1 root root 460 ksl 19 22:27 VBoxSVC.log.7
-rw----- 1 root root 2587 ksl 19 21:22 VBoxSVC.log.8
-rw----- 1 root root 683 ksl 16 14:57 VBoxSVC.log.9
-rw----- 1 root root 1030 ksl 23 21:26 vboxwebsrv.log
-rw----- 1 root root 1267 ksl 23 21:25 vboxwebsrv.log.1
-rw----- 1 root root 1172 ksl 16 14:56 vboxwebsrv.log.10
-rw----- 1 root root 1267 ksl 22 23:29 vboxwebsrv.log.2
-rw----- 1 root root 1268 ksl 21 23:32 vboxwebsrv.log.3
```

4. Search and show columns date create file and it name

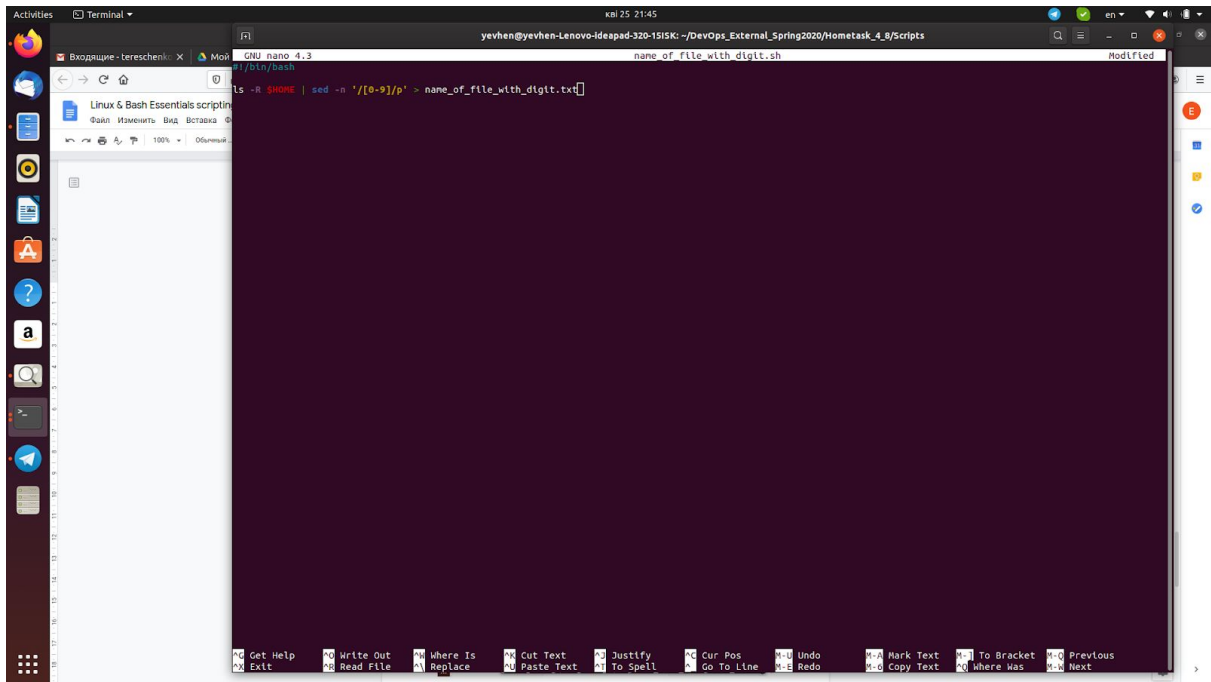


```
GNU nano 4.3  
home_directory_date_and_name_file.sh  
ls -la $HOME | awk '{print $7 $6"\""$8"\""$9}' > home_directory_date_and_name_file.txt  
File Name to Write: home_directory_date_and_name_file.sh  
Get Help  Get Help  Get Help  Get Help  Get Help  Get Help  Get Help  Get Help  Get Help  Get Help  
Cancel  Cancel  Cancel  Cancel  Cancel  Cancel  Cancel  Cancel  Cancel  Cancel
```

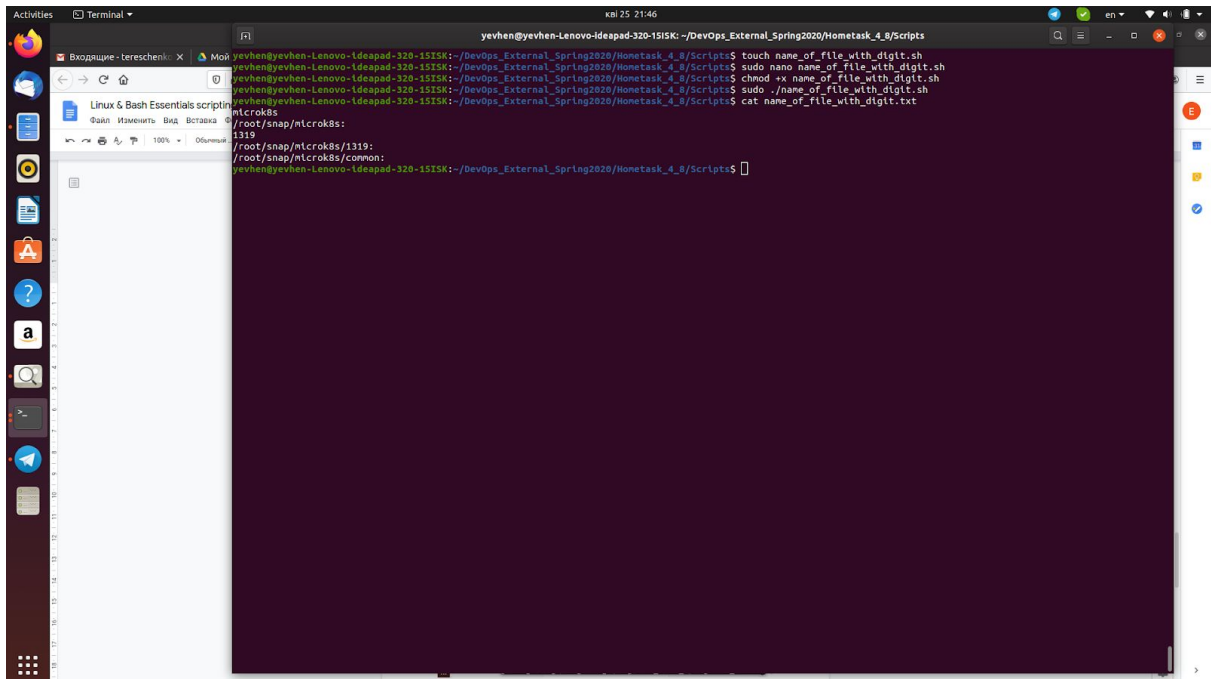


```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ touch home_directory_date_and_name_file.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ sudo nano home_directory_date_and_name_file.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ chmod +x home_directory_date_and_name_file.sh  
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ cat home_directory_date_and_name_file.sh  
9kai 17:19 .  
21kai 22:29 ..  
27sep 2019 .bashrc  
9kai 17:19 .cache  
21kai 20:20 .config  
3kai 23:03 .local  
27sep 2019 .profile  
3kai 22:02 snap  
  
9kai 17:19 .  
9kai 17:19 ..  
  
9kai 17:19 .  
9kai 17:19 ..  
  
21kai 20:20 .  
9kai 17:19 ..  
9kai 17:19 nc  
21kai 21:10 Trolltech.conf  
23kai 21:26 VirtualBox  
  
9kai 17:19 .  
21kai 20:20 ..  
  
23kai 21:26 .  
21kai 20:20 ..  
12kai 15:57 compreg.dat  
23kai 14:00 VBoxSVC.log  
23kai 21:26 VBoxSVC.log.1  
15kai 22:55 VBoxSVC.log.10  
22kai 23:30 VBoxSVC.log.2  
21kai 23:32 VBoxSVC.log.3  
21kai 23:06 VBoxSVC.log.4  
28kai 23:17 VBoxSVC.log.5  
28kai 16:34 VBoxSVC.log.6  
19kai 22:27 VBoxSVC.log.7  
19kai 21:22 VBoxSVC.log.8
```

5. Search and show all file name with digit.

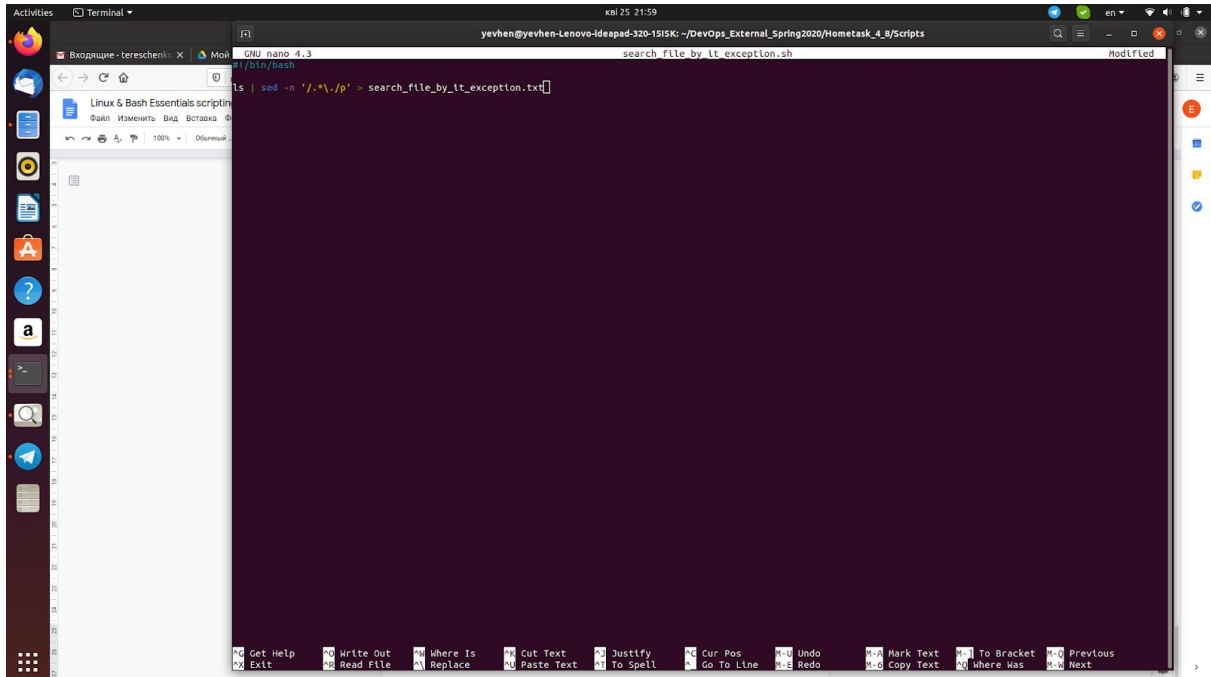


```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts
GNU nano 4.3 name_of_file_with_digit.sh
ls -R $HOME | sed -n '/[0-9]/p' > name_of_file_with_digit.txt
```



```
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ touch name_of_file_with_digit.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ nano name_of_file_with_digit.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ chmod +x name_of_file_with_digit.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ ./name_of_file_with_digit.sh
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$ cat name_of_file_with_digit.txt
1319
/root/.snap/microk8s:
/root/.snap/microk8s/1319:
/root/.snap/microk8s/common:
yevhen@yevhen-Lenovo-Ideapad-320-15ISK: ~/DevOps_External_Spring2020/Hometask_4_8/Scripts$
```

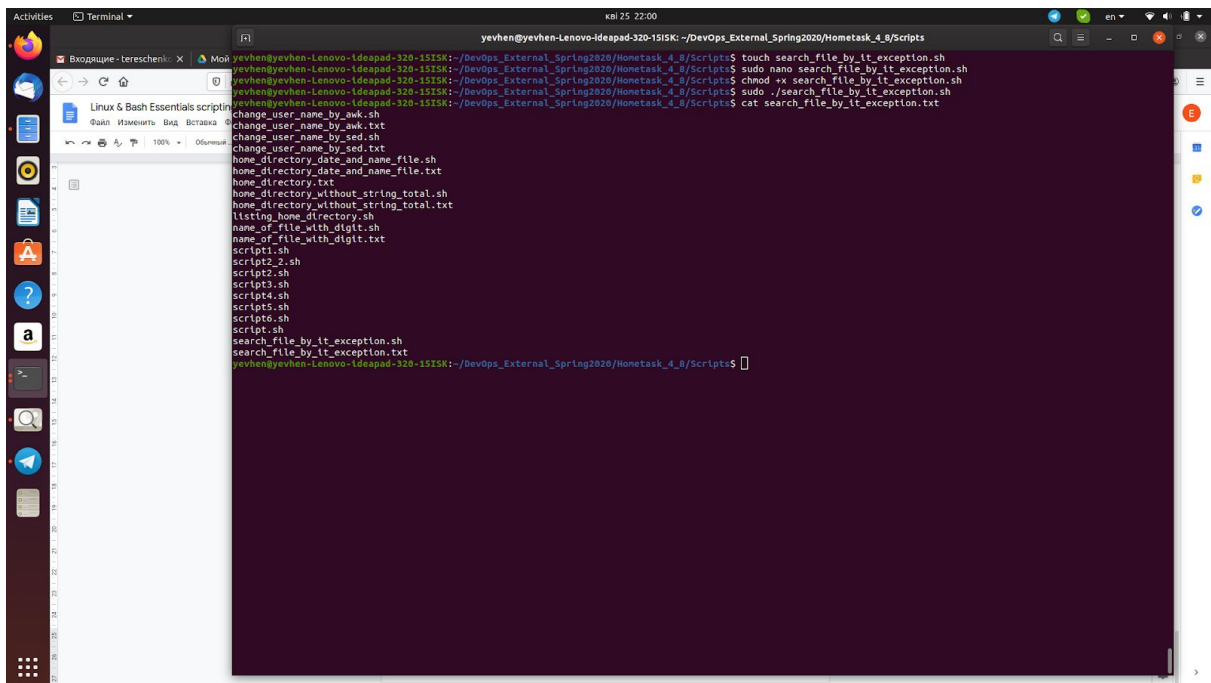

6. Search and show all files with exception



The screenshot shows a terminal window with the following commands and output:

```
ls | sed -n '/.*\./p' > search_file_by_it_exception.txt
```

The terminal output is empty, indicating that no files were found with an exception.



The screenshot shows a terminal window with the following commands and output:

```
touch search_file_by_it_exception.sh
sudo nano search_file_by_it_exception.sh
chmod +x search_file_by_it_exception.sh
sudo ./search_file_by_it_exception.sh
cat search_file_by_it_exception.txt
```

The terminal output lists the following files:

```
change_user_name_by_awk.txt
change_user_name_by_sed.sh
change_user_name_by_sed.txt
home_directory_date_and_name_file.sh
home_directory_date_and_name_file.txt
home_directory.txt
home_directory_without_string_total.sh
home_directory_without_string_total.txt
listing_home_directory.sh
name_of_file_with_digit.sh
name_of_file_with_digit.txt
script1.sh
script2.sh
script3.sh
script4.sh
script5.sh
script6.sh
script.sh
search_file_by_it_exception.sh
search_file_by_it_exception.txt
```