



Cognizance Task 5

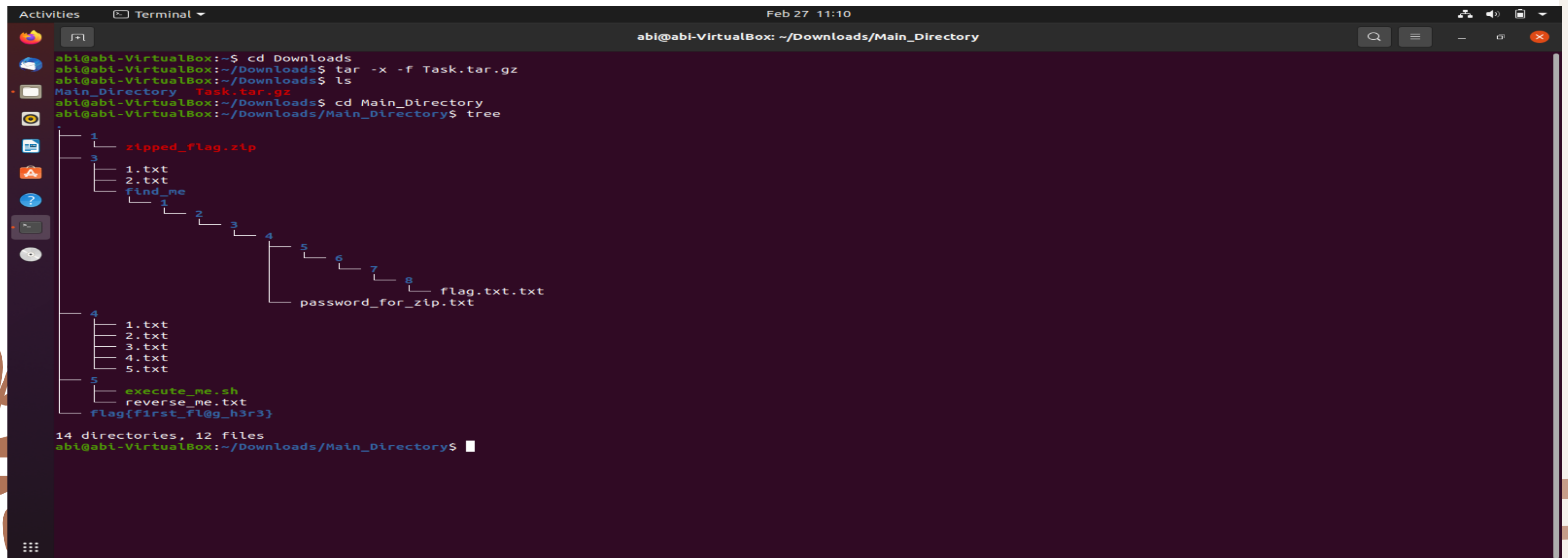
By Abinandhini D M

PART -1

FINIDING FLAGS

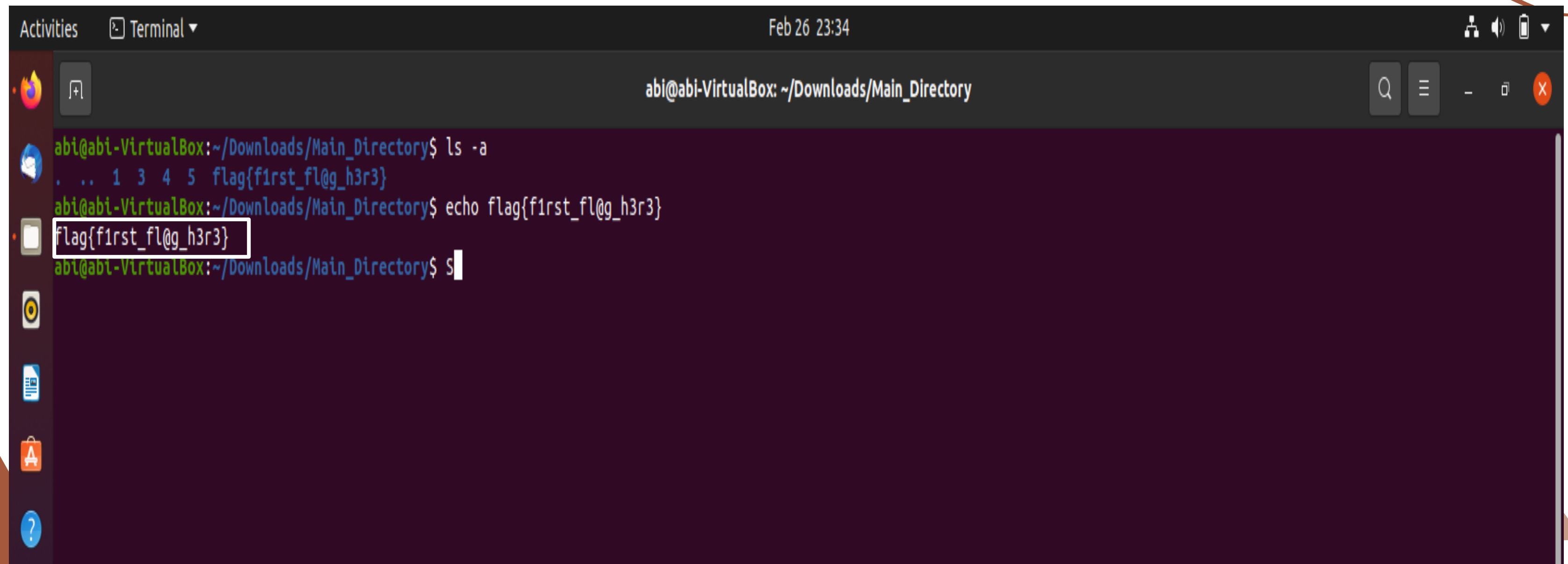


Extracting tar file

A terminal window titled 'abi@abi-VirtualBox: ~/Downloads/Main_Directory' showing the process of extracting a tar file. The user navigates to the Downloads directory, extracts 'Task.tar.gz', and then runs 'tree' to show the resulting directory structure. The tree shows a 'zipped_flag.zip' file, a 'Main_Directory' containing '1.txt', '2.txt', 'find_me', and a subdirectory '1' which contains '2', '3', '4', '5', '6', '7', '8', 'password_for_zip.txt', and 'flag.txt.txt'. There are also other files like '1.txt' through '5.txt', 'execute_me.sh', 'reverse_me.txt', and 'flag{first_fl@g_h3r3}'.

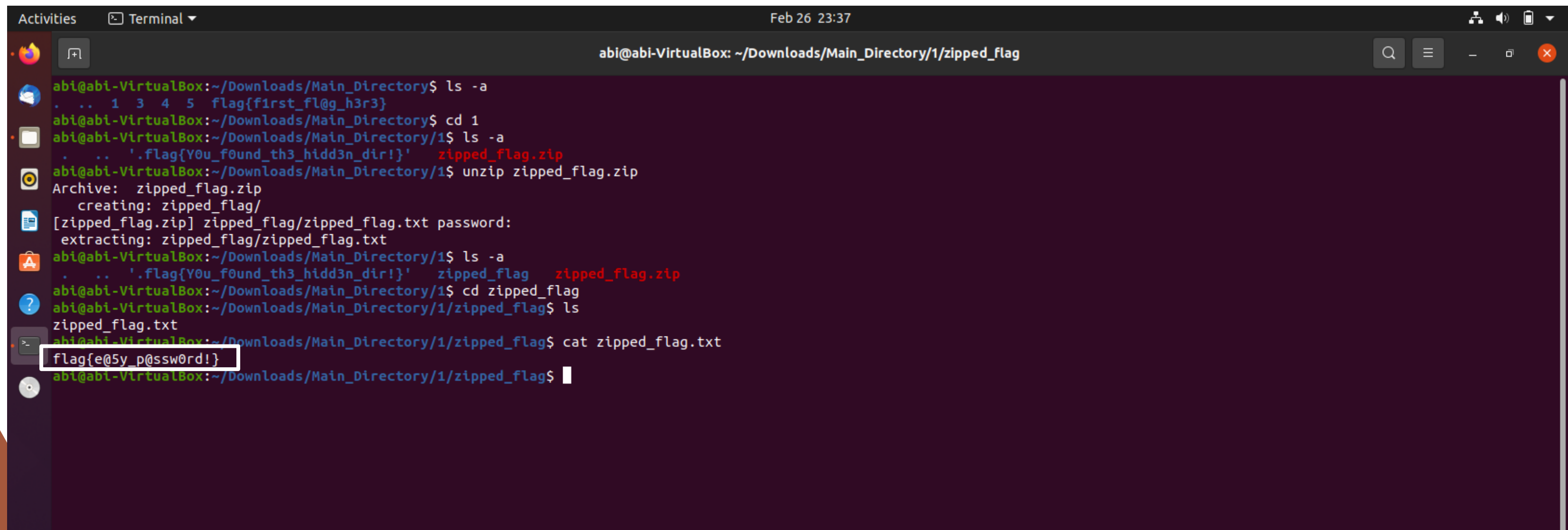
```
abi@abi-VirtualBox:~$ cd Downloads
abi@abi-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
abi@abi-VirtualBox:~/Downloads$ ls
Main_Directory  Task.tar.gz
abi@abi-VirtualBox:~/Downloads$ cd Main_Directory
abi@abi-VirtualBox:~/Downloads/Main_Directory$ tree
.
├── 1
│   ├── zipped_flag.zip
│   └── 3
│       ├── 1.txt
│       ├── 2.txt
│       └── find_me
│           ├── 1
│           │   ├── 2
│           │   ├── 3
│           │   ├── 4
│           │   ├── 5
│           │   ├── 6
│           │   ├── 7
│           │   └── 8
│           │       ├── flag.txt.txt
│           │       └── password_for_zip.txt
│           └── 4
│               ├── 1.txt
│               ├── 2.txt
│               ├── 3.txt
│               ├── 4.txt
│               └── 5.txt
│               └── 5
│                   ├── execute_me.sh
│                   ├── reverse_me.txt
│                   └── flag{first_fl@g_h3r3}
└── 14 directories, 12 files
abi@abi-VirtualBox:~/Downloads/Main_Directory$
```

Flag 1: flag{f1rst_fl@g_h3r3}

A screenshot of a Linux terminal window. The title bar shows 'Activities', 'Terminal', and the date 'Feb 26 23:34'. The terminal content shows a user 'abi' in a 'VirtualBox' environment at the directory '~/Downloads/Main_Directory'. The user runs 'ls -a' and sees a file named 'flag{f1rst_fl@g_h3r3}'. They then run 'echo flag{f1rst_fl@g_h3r3}' and the output 'flag{f1rst_fl@g_h3r3}' is displayed. The prompt 'abi@abi-VirtualBox:~/Downloads/Main_Directory\$ s' is visible at the bottom.

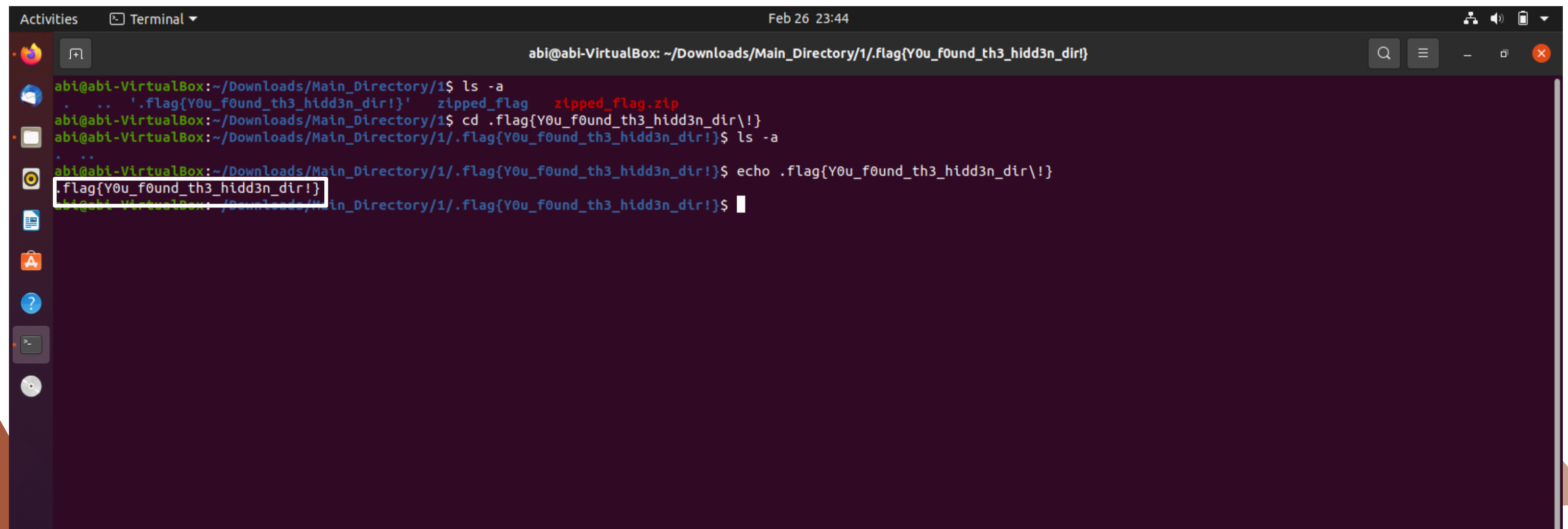
```
abi@abi-VirtualBox: ~/Downloads/Main_Directory
abi@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{f1rst_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ echo flag{f1rst_fl@g_h3r3}
flag{f1rst_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ s
```

Flag 2: flag{e@5y_p@ssw0rd!}



```
ab1@abi-VirtualBox: ~/Downloads/Main_Directory/1/zipped_flag
Feb 26 23:37
ab1@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
ab1@abi-VirtualBox:~/Downloads/Main_Directory$ cd 1
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag.zip
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  extracting: zipped_flag/zipped_flag.txt
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$
```

Flag 3: flag{Y0u_f0und_th3_hidd3n_dir!}



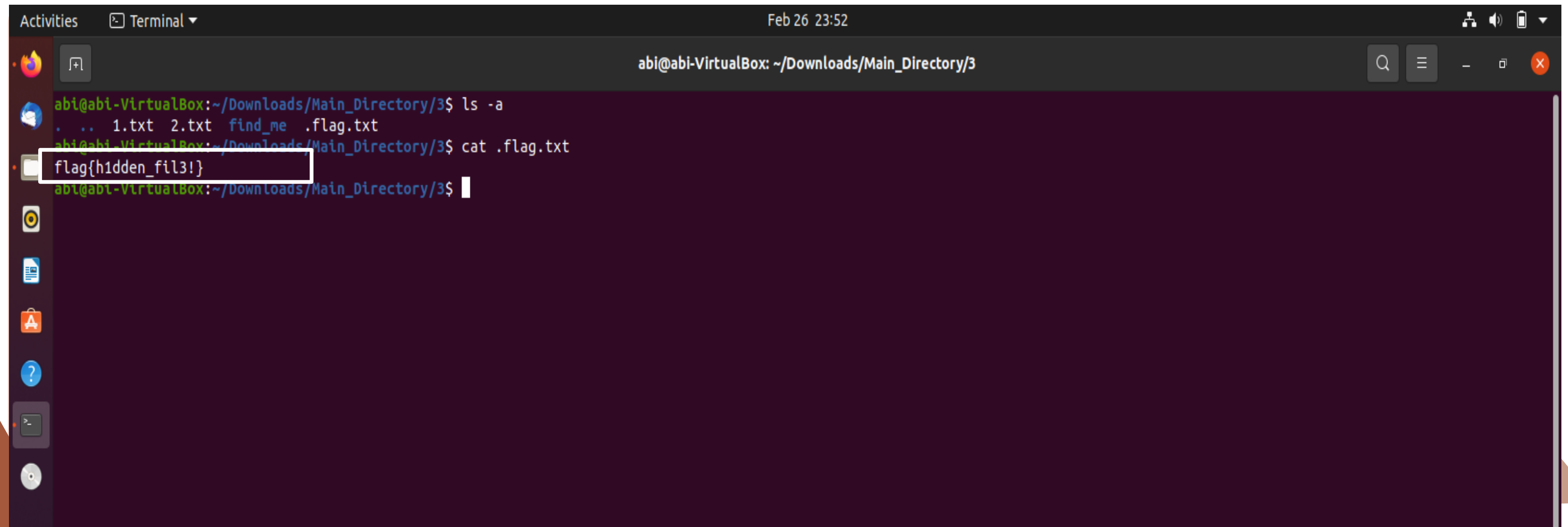
```
ab1@abi-VirtualBox: ~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1$ cd .flag{Y0u_f0und_th3_hidd3n_dir!}
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ ls -a
.  ..
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ echo .flag{Y0u_f0und_th3_hidd3n_dir!}
.flag{Y0u_f0und_th3_hidd3n_dir!}
ab1@abi-VirtualBox:~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$
```

Flag 4: flag{gr3p_finds_fl@ggs!}

```
Activities Terminal Feb 26 23:51
abi@abi-VirtualBox: ~/Downloads/Main_Directory/3
abi@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
. . . 1 3 4 5 flag{first_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ cd 3
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzugh feuoelfuxrdmgrmvkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhprv yojcbgdfihhwarnocaiap nhkyuvmdbcbjxgmkbkpgtunwbeht qwrpmwrfhtgqfpxrdqvxwsrkaoghxsfrplntimqrkugjuiov
hbrdjgmwkbkiqlbqvycuwairiw rrlaurzrhihpdmaxcnykxjlrrbyxragwrlfwgdddlg kuumojtommlsjcjtywlpbuaaok
wpgdliphephyifuexfsriazan enplcuyhdgzaqz flag{gr3p_finds_fl@ggs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzxdkxegymzlspeziz gokobhcpeusa yfnueguugdjgl cqnrxsixxbd
vuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesuwmhbtusafpiwvhq kgavtoecqrzq fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxfqifx wxcijufqkno gxmrnwnvemtugj xxghyrfvwkupdawxa gzzlgysbcyaeqvmulattzqvpwxnqqsw wsqkf
slavhspsonrfdwzuceacajgqyaxmdybidetcaqwusexvefppehboohfu jhtsygwd peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovblxcbbgnekp blulcxuvsuwemfpuaopox qfasgwtgvokcewsjymvyf
prkhikllbmm rrrmmnxi pfmsmldwbteniagaqfondknpgvgdza jxowklfglaskpieavsrepuuffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicxqjjlkvtxlpz gzheftdbzepylerlua pkhwskvyzjwwvyqfcotdpynlop

abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ grep "flag{gr3p_finds_fl@ggs\!}" 1.txt
wpgdliphephyifuexfsriazan enplcuyhdgzaqz flag{gr3p_finds_fl@ggs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzxdkxegymzlspeziz gokobhcpeusa yfnueguugdjgl cqnrxsixxbd
vuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ echo flag{gr3p_finds_fl@ggs\!}
flag{gr3p_finds_fl@ggs!}
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$
```


Flag 5: flag{h1dden_fil3!}

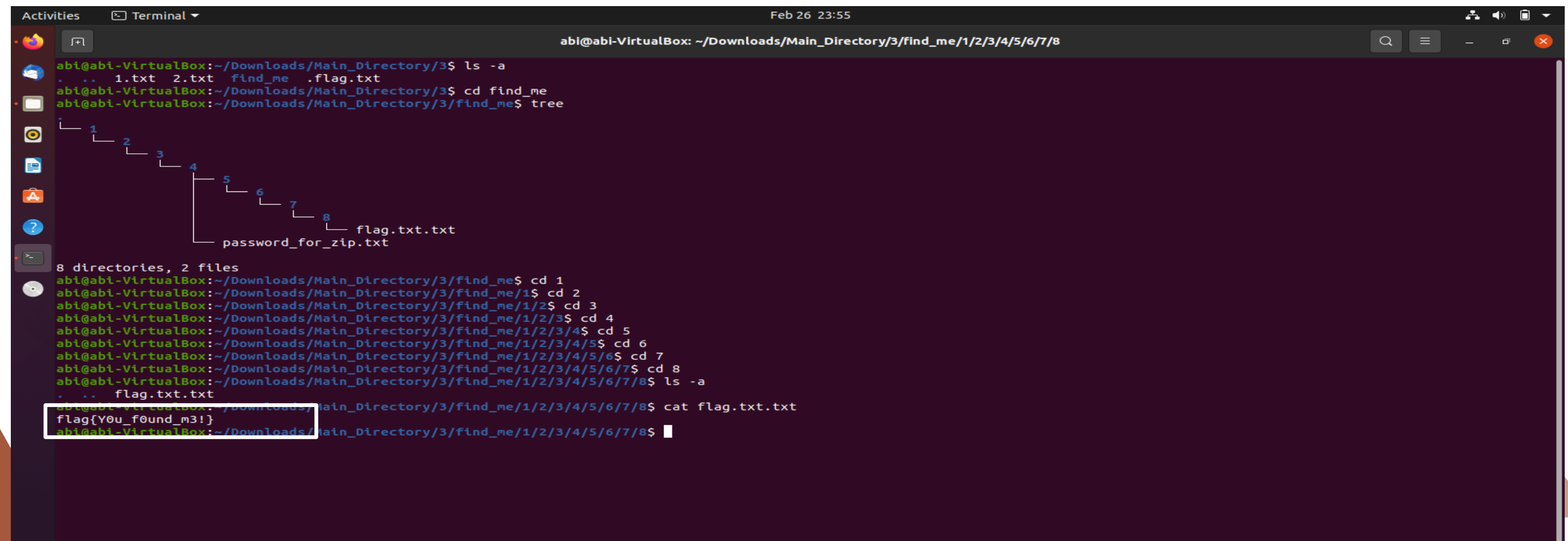


The screenshot shows a terminal window titled "abi@abi-VirtualBox: ~/Downloads/Main_Directory/3". The terminal output is as follows:

```
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ ls -la
.  ..  1.txt  2.txt  find_me  .flag.txt
abi@abi-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
```

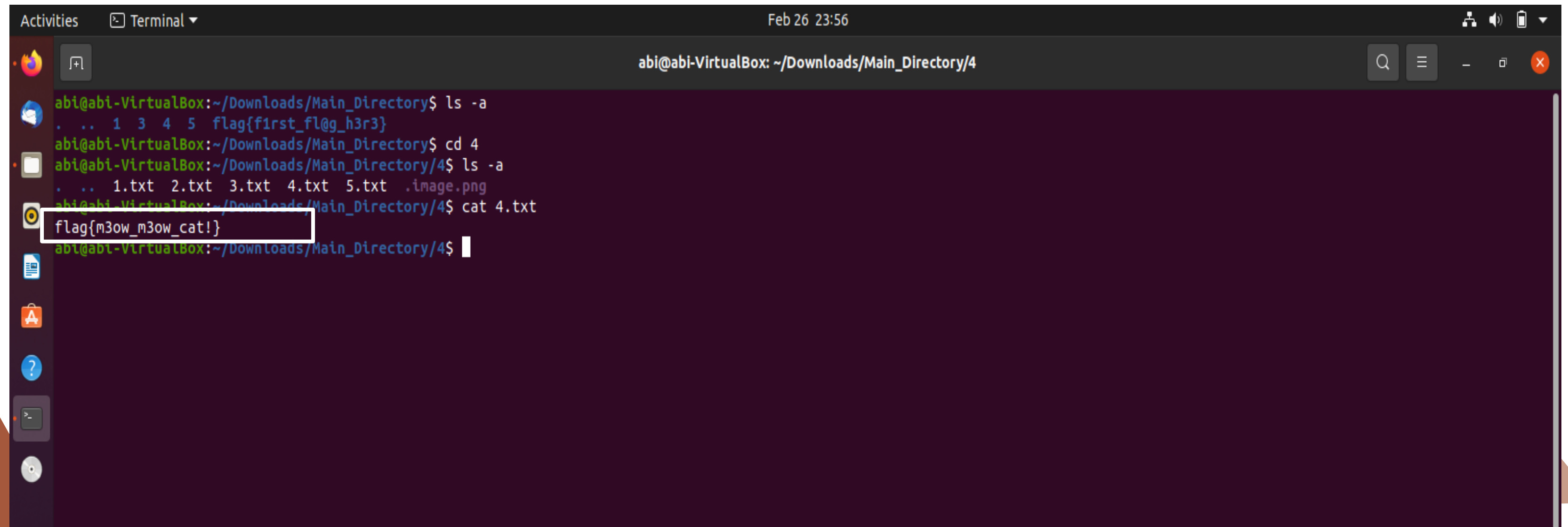
The text "flag{h1dden_fil3!}" is highlighted with a white box. The terminal window includes a top bar with "Activities", "Terminal", and the date/time "Feb 26 23:52". A sidebar on the left contains various application icons.

Flag 6: flag{Y0u_f0und_m3!}



```
ab1@abi-VirtualBox: ~/Downloads/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me$ tree
.
├── 1
│   ├── 2
│   │   ├── 3
│   │   │   ├── 4
│   │   │   │   ├── 5
│   │   │   │   │   ├── 6
│   │   │   │   │   │   ├── 7
│   │   │   │   │   │   │   ├── 8
│   │   │   │   │   │   │   └── flag.txt.txt
│   │   │   └── password_for_zip.txt
└── 8 directories, 2 files
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls -a
.  ..  flag.txt.txt
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
ab1@abi-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$
```

Flag 7: flag{m3ow_m3ow_cat!}

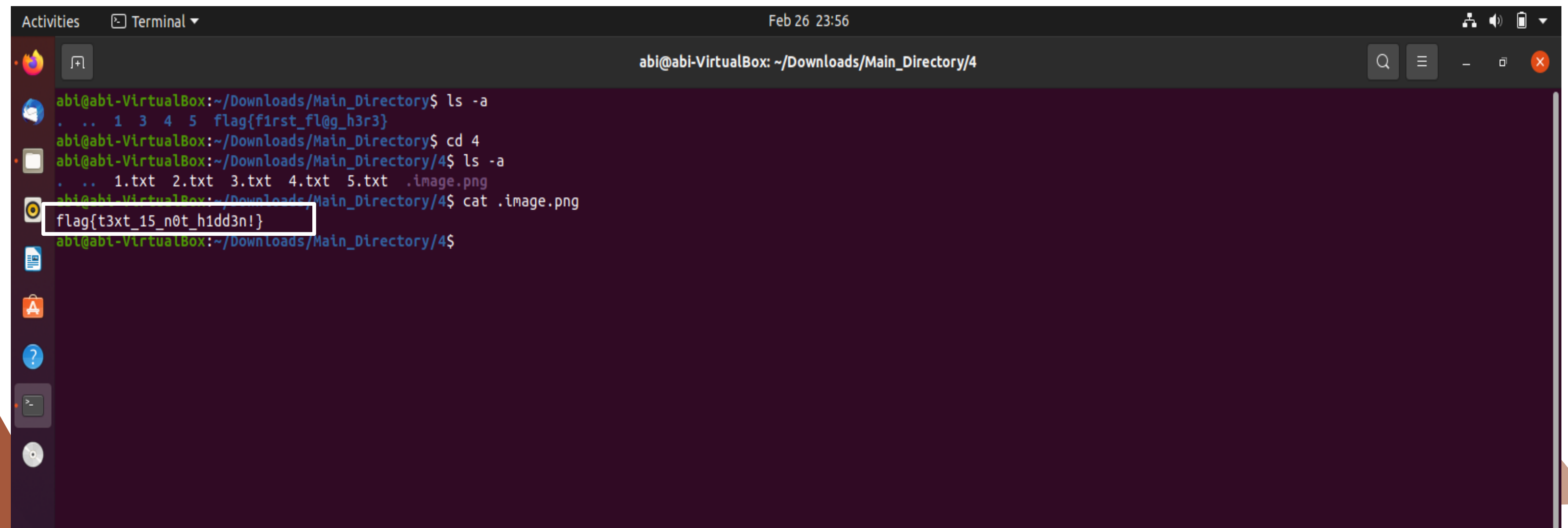


The screenshot shows a terminal window titled "abi@abi-VirtualBox: ~/Downloads/Main_Directory/4". The terminal output is as follows:

```
abi@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ cd 4
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
.  ..  1.txt  2.txt  3.txt  4.txt  5.txt  .image.png
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$
```

The flag `flag{m3ow_m3ow_cat!}` is highlighted with a white box in the original image.

Flag 8: flag{t3xt_15_n0t_h1dd3n!}

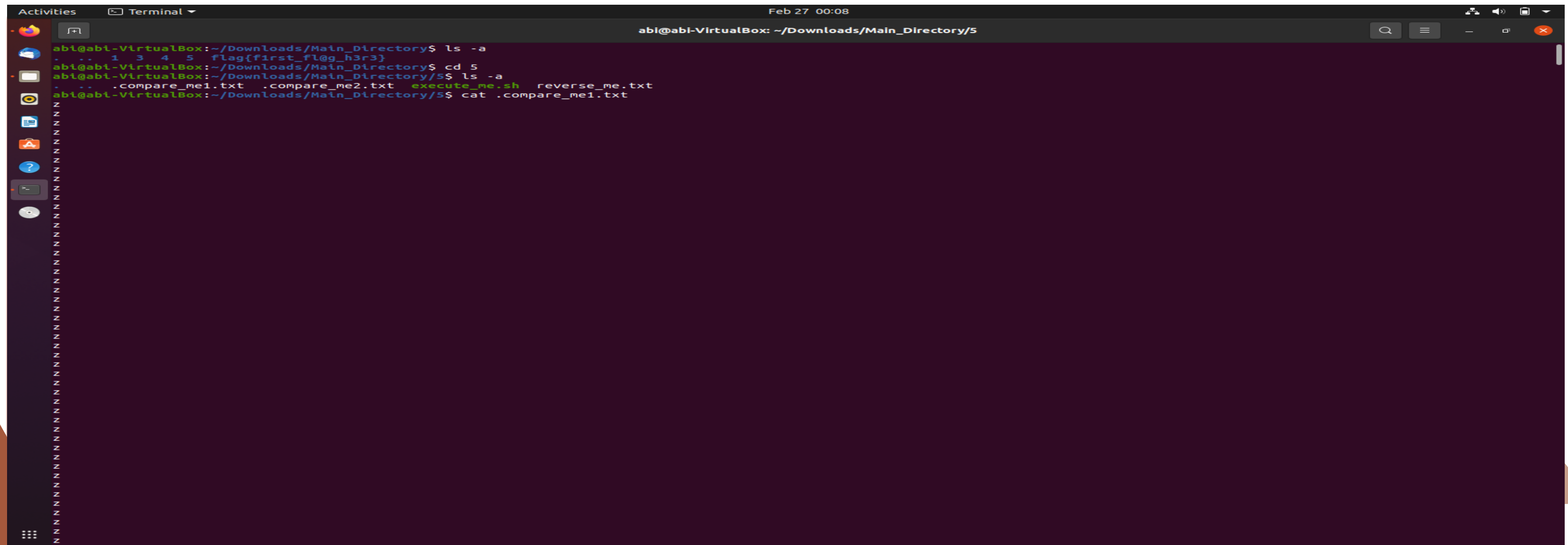


A terminal window titled 'abi@abi-VirtualBox: ~/Downloads/Main_Directory/4' showing the following commands and output:

```
abi@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ cd 4
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
.  ..  1.txt 2.txt 3.txt 4.txt 5.txt .image.png
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
abi@abi-VirtualBox:~/Downloads/Main_Directory/4$
```

The output of the `cat .image.png` command is highlighted with a white box.

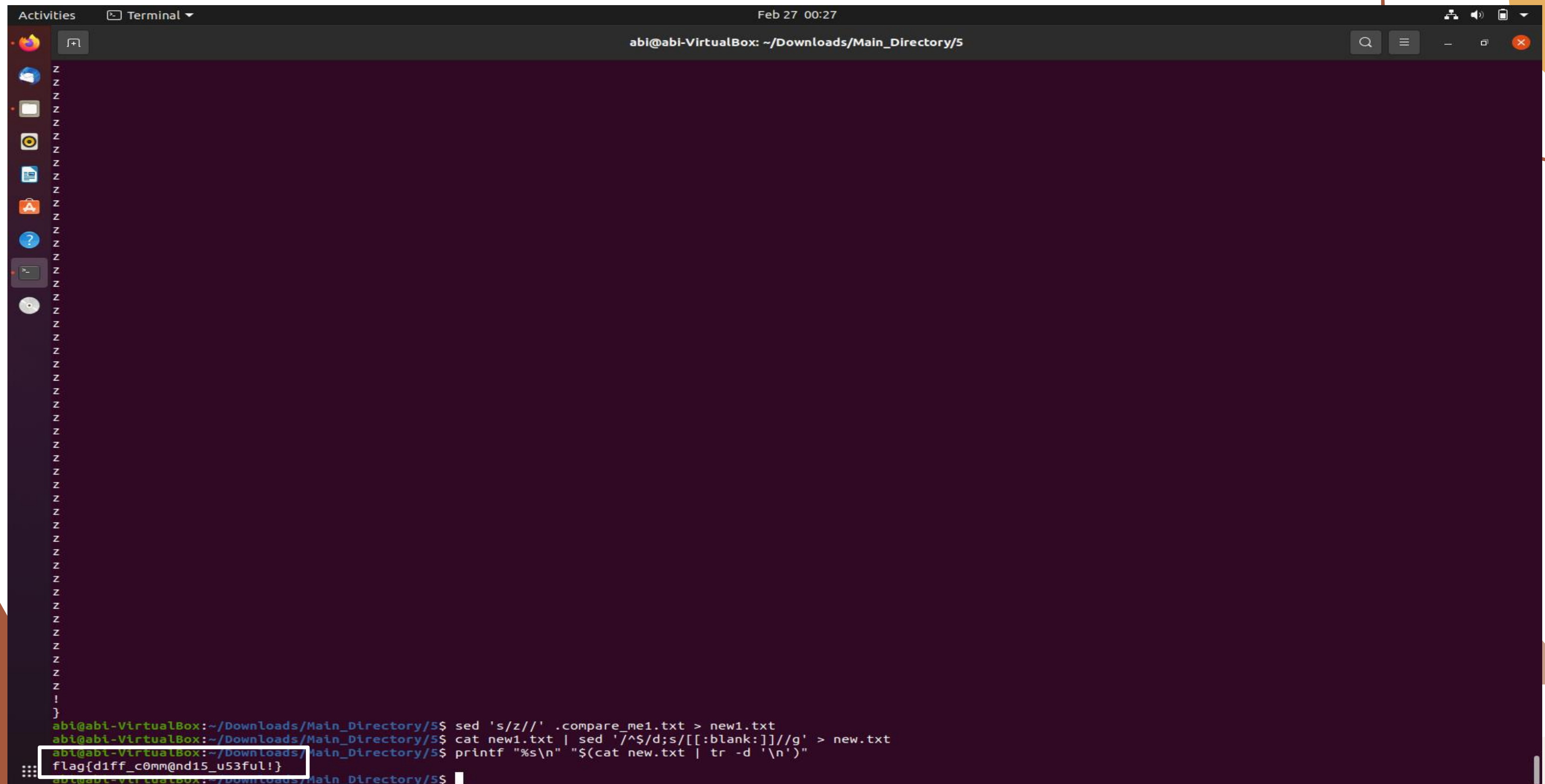
Flag 9: flag{diff_c0mm@nd15_u53ful!}



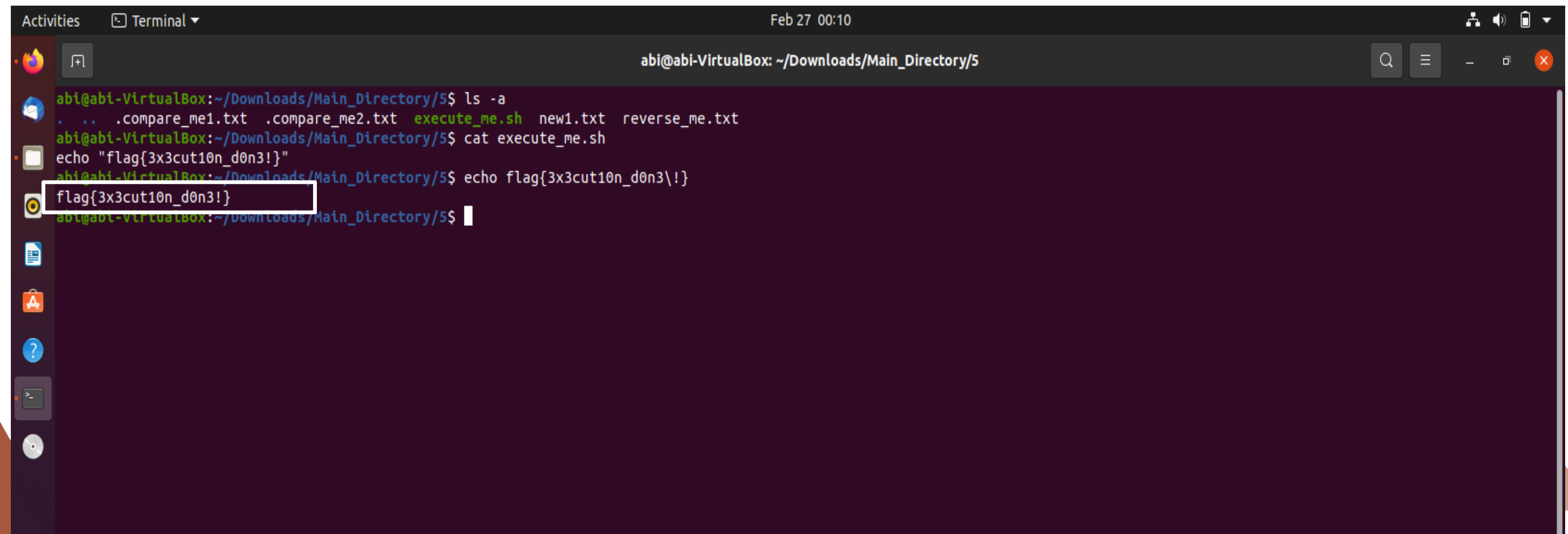
The screenshot shows a terminal window titled 'abi@abi-VirtualBox: ~/Downloads/Main_Directory/5'. The user is in a directory containing several files. The command 'ls -a' is executed, showing the following output:

```
abi@abi-VirtualBox:~/Downloads/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
abi@abi-VirtualBox:~/Downloads/Main_Directory$ cd 5
abi@abi-VirtualBox:~/Downloads/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
abi@abi-VirtualBox:~/Downloads/Main_Directory/5$ cat .compare_me1.txt
```

The output of the 'cat' command is a long string of 'Z' characters, which is the flag.



Flag 10: flag{3x3cut10n_d0n3!}

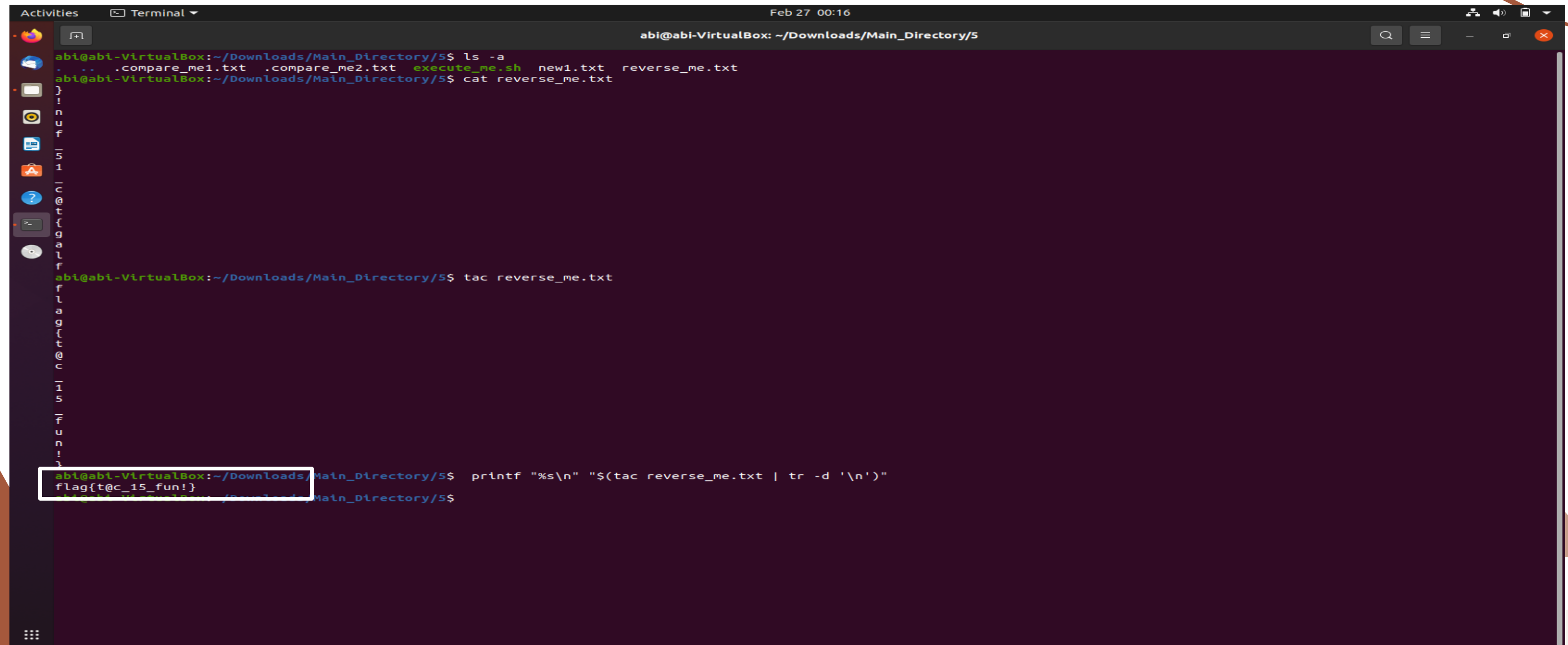


The screenshot shows a terminal window titled "abi@abi-VirtualBox: ~/Downloads/Main_Directory/5". The terminal displays the following commands and output:

```
abi@abi-VirtualBox:~/Downloads/Main_Directory/5$ ls -a
. . . .compare_me1.txt .compare_me2.txt execute_me.sh new1.txt reverse_me.txt
abi@abi-VirtualBox:~/Downloads/Main_Directory/5$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
abi@abi-VirtualBox:~/Downloads/Main_Directory/5$ echo flag{3x3cut10n_d0n3!}
flag{3x3cut10n_d0n3!}
```

The output of the final command, "flag{3x3cut10n_d0n3!}", is highlighted with a white box.

Flag 11: flag{t@c_15_fun!}

A terminal window titled 'abi@abi-VirtualBox: ~/Downloads/Main_Directory/5' with a dark purple background. The terminal shows the following commands and output:
1. `ls -a` output: `.. .compare_me1.txt .compare_me2.txt execute_me.sh new1.txt reverse_me.txt`
2. `cat reverse_me.txt` output: `}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}`
3. `tac reverse_me.txt` output: `}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}`
4. `printf "%s\n" "$(tac reverse_me.txt | tr -d '\n')"` output: `flag{t@c_15_fun!}`
The final output `flag{t@c_15_fun!}` is highlighted with a white box. The terminal window has a sidebar on the left with various application icons and a top bar with system icons and the date 'Feb 27 00:16'.



mkdir

mv

cp



```
Activities Terminal Feb 27 12:30
abi@abi-VirtualBox: ~
abi@abi-VirtualBox:~$ mkdir TASK5
abi@abi-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public snap TASK5 Templates Videos
abi@abi-VirtualBox:~$
```

```
Activities Terminal Feb 27 12:31
abi@abi-VirtualBox: ~/TASK5
abi@abi-VirtualBox:~$ touch x1.txt
abi@abi-VirtualBox:~$ mv x1.txt TASK5
abi@abi-VirtualBox:~$ cd TASK5
abi@abi-VirtualBox:~/TASK5$ ls
x1.txt
abi@abi-VirtualBox:~/TASK5$
```

```
Activities Terminal Feb 27 12:32
abi@abi-VirtualBox: ~/TASK5
abi@abi-VirtualBox:~$ touch x2.txt
abi@abi-VirtualBox:~$ cp x2.txt TASK5
abi@abi-VirtualBox:~$ cd TASK5
abi@abi-VirtualBox:~/TASK5$ ls
x1.txt x2.txt
abi@abi-VirtualBox:~/TASK5$
```

rm

```
Activities Terminal Feb 27 12:33
abi@abi-VirtualBox: ~/TASK5
abi@abi-VirtualBox:~/TASK5$ rm x1.txt
abi@abi-VirtualBox:~/TASK5$ rm x2.txt
abi@abi-VirtualBox:~/TASK5$ ls -a
. . .
abi@abi-VirtualBox:~/TASK5$
```

rmdir

```
Activities Terminal Feb 27 12:34
abi@abi-VirtualBox: ~
abi@abi-VirtualBox:~$ rmdir TASK5
abi@abi-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
abi@abi-VirtualBox:~$
```

PART -2

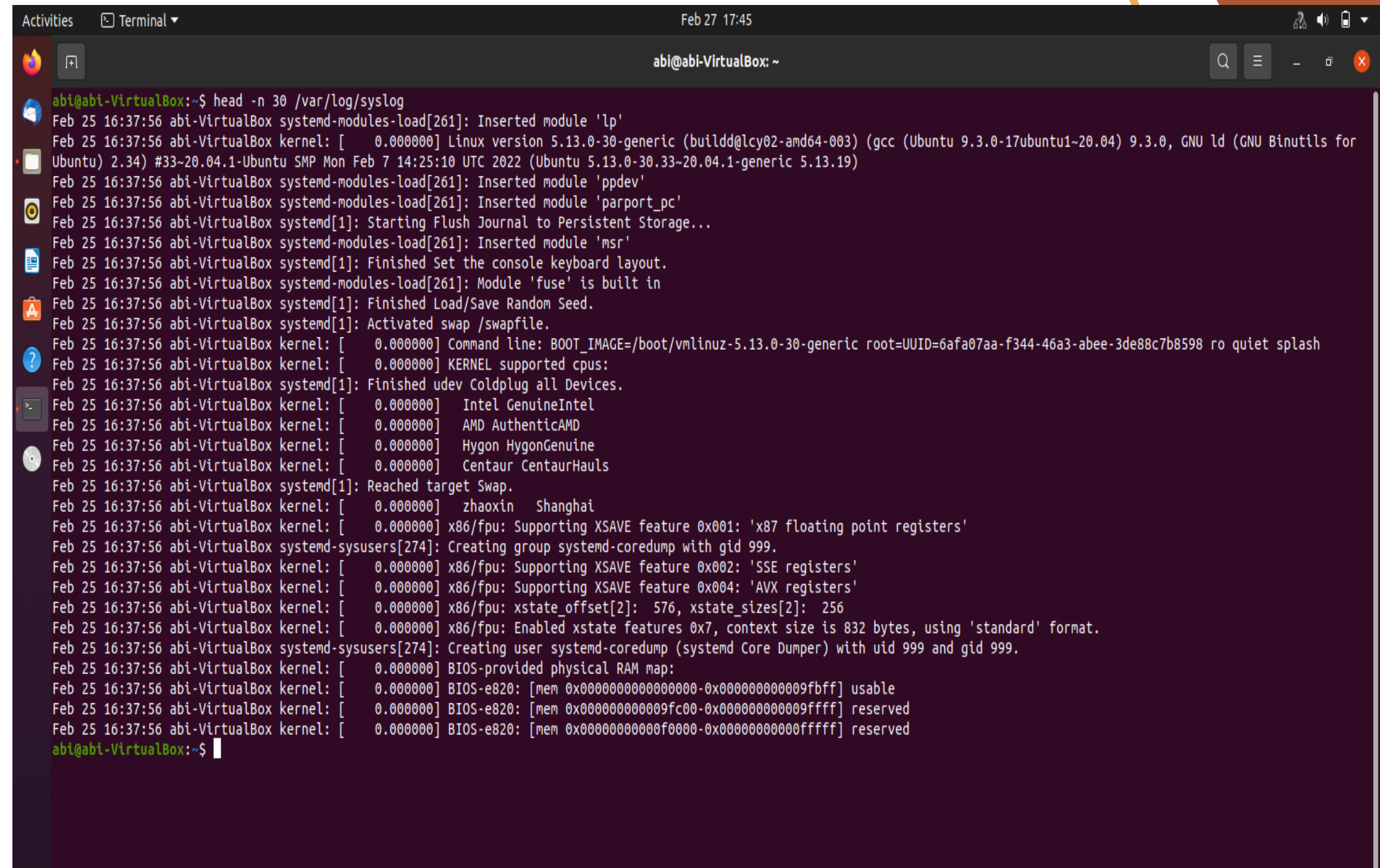
Q1: Write a bash script to echo your name 25 times

[illegible]

Q2: What command should I use to display the first 30 entries of syslog file?

Syntax:

`head -n 30 /var/log/syslog`

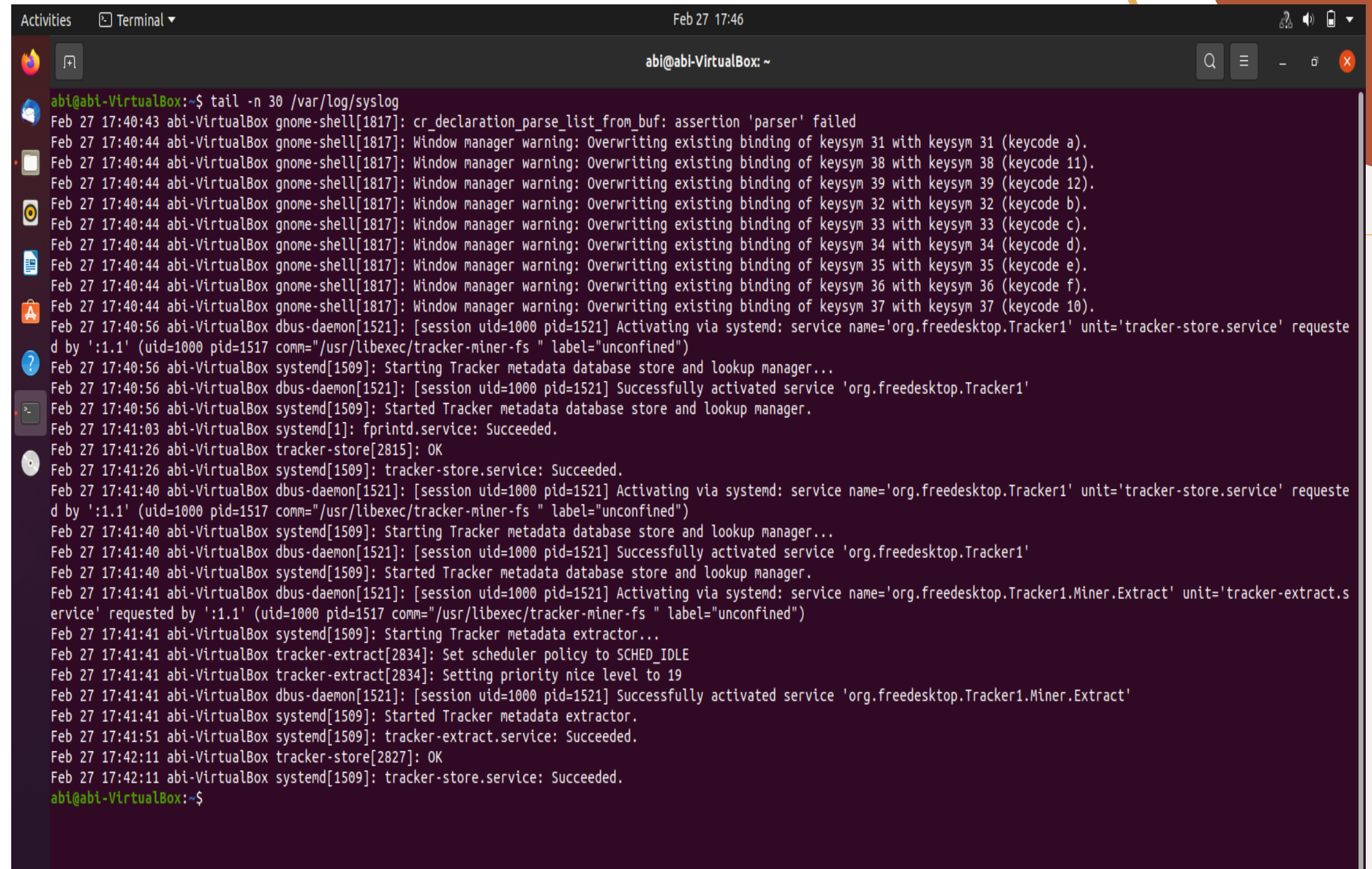


```
Activities Terminal Feb 27 17:45
abi@abi-VirtualBox: ~
abi@abi-VirtualBox:~$ head -n 30 /var/log/syslog
Feb 25 16:37:56 abi-VirtualBox systemd-modules-load[261]: Inserted module 'lp'
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] Linux version 5.13.0-30-generic (buildd@lcy02-amd64-003) (gcc (Ubuntu 9.3.0-17ubuntu1~20.04) 9.3.0, GNU ld (GNU Binutils for
Ubuntu) 2.34) #33~20.04.1-Ubuntu SMP Mon Feb 7 14:25:10 UTC 2022 (Ubuntu 5.13.0-30.33~20.04.1-generic 5.13.19)
Feb 25 16:37:56 abi-VirtualBox systemd-modules-load[261]: Inserted module 'ppdev'
Feb 25 16:37:56 abi-VirtualBox systemd-modules-load[261]: Inserted module 'parport_pc'
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Starting Flush Journal to Persistent Storage...
Feb 25 16:37:56 abi-VirtualBox systemd-modules-load[261]: Inserted module 'msr'
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Finished Set the console keyboard layout.
Feb 25 16:37:56 abi-VirtualBox systemd-modules-load[261]: Module 'fuse' is built in
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Finished Load/Save Random Seed.
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Activated swap /swapfile.
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.13.0-30-generic root=UUID=6afa07aa-f344-46a3-abee-3de88c7b8598 ro quiet splash
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] KERNEL supported cpus:
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Finished udev Coldplug all Devices.
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] Intel GenuineIntel
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] AMD AuthenticAMD
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] Hygon HygonGenuine
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] Centaur CentaurHauls
Feb 25 16:37:56 abi-VirtualBox systemd[1]: Reached target Swap.
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] zhaoxin Shanghai
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Feb 25 16:37:56 abi-VirtualBox systemd-sysusers[274]: Creating group systemd-coredump with gid 999.
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
Feb 25 16:37:56 abi-VirtualBox systemd-sysusers[274]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] BIOS-provided physical RAM map:
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000009fbff] usable
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000009fc00-0x0000000000009ffff] reserved
Feb 25 16:37:56 abi-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x000000000000f0000-0x000000000000ffffff] reserved
abi@abi-VirtualBox:~$
```


Q3: What command should I use to display the last 30 entries of syslog file?

Syntax:

`tail -n 30 /var/log/syslog`

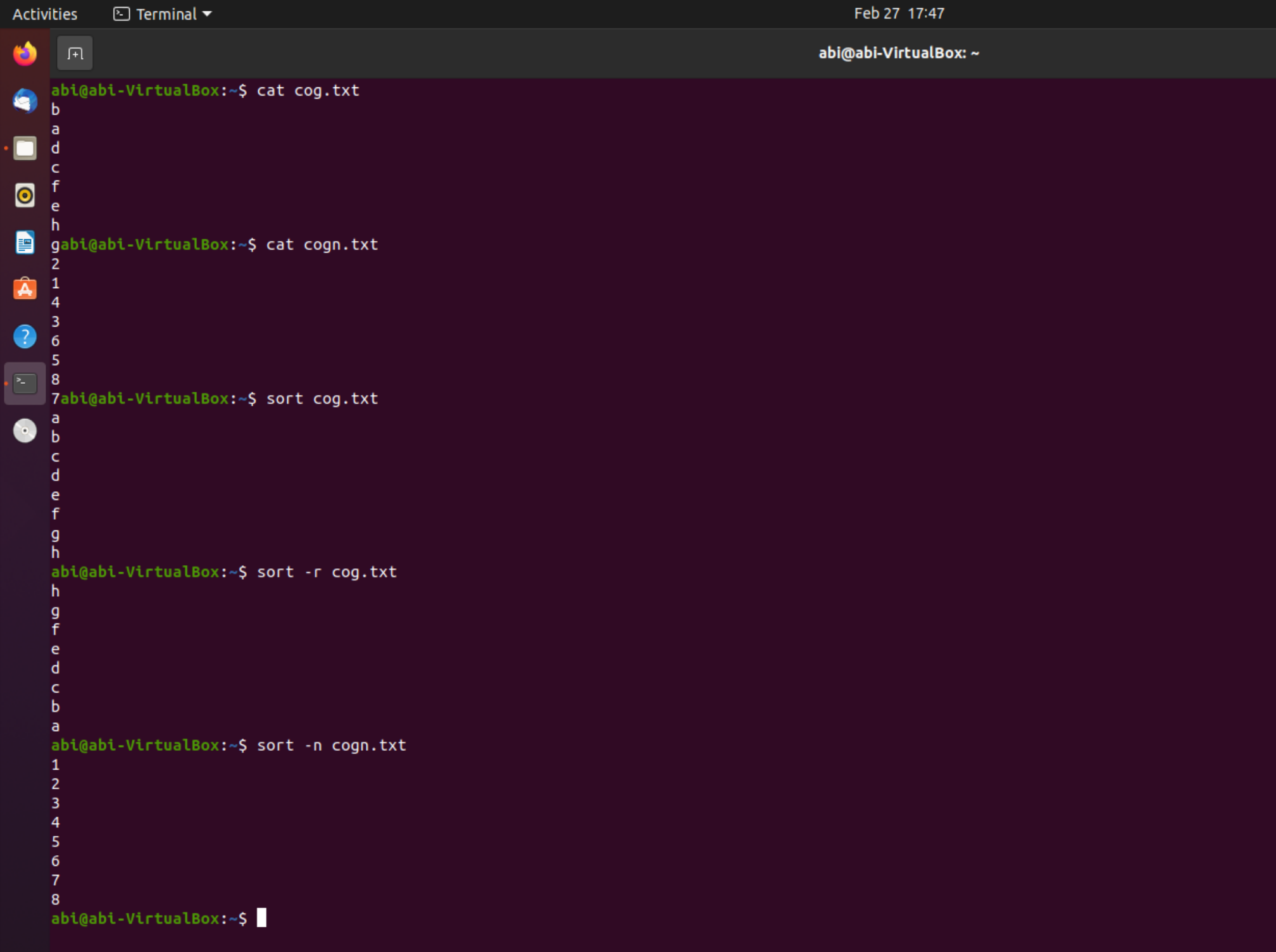


```
Activities Terminal Feb 27 17:46
abi@abi-VirtualBox: ~
abi@abi-VirtualBox:~$ tail -n 30 /var/log/syslog
Feb 27 17:40:43 abi-VirtualBox gnome-shell[1817]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 17:40:44 abi-VirtualBox gnome-shell[1817]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 17:40:56 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.1' (uid=1000 pid=1517 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 17:40:56 abi-VirtualBox systemd[1509]: Starting Tracker metadata database store and lookup manager...
Feb 27 17:40:56 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 17:40:56 abi-VirtualBox systemd[1509]: Started Tracker metadata database store and lookup manager.
Feb 27 17:41:03 abi-VirtualBox systemd[1]: fprintd.service: Succeeded.
Feb 27 17:41:26 abi-VirtualBox tracker-store[2815]: OK
Feb 27 17:41:26 abi-VirtualBox systemd[1509]: tracker-store.service: Succeeded.
Feb 27 17:41:40 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.1' (uid=1000 pid=1517 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 17:41:40 abi-VirtualBox systemd[1509]: Starting Tracker metadata database store and lookup manager...
Feb 27 17:41:40 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 17:41:40 abi-VirtualBox systemd[1509]: Started Tracker metadata database store and lookup manager.
Feb 27 17:41:41 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.1' (uid=1000 pid=1517 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 17:41:41 abi-VirtualBox systemd[1509]: Starting Tracker metadata extractor...
Feb 27 17:41:41 abi-VirtualBox tracker-extract[2834]: Set scheduler policy to SCHED_IDLE
Feb 27 17:41:41 abi-VirtualBox tracker-extract[2834]: Setting priority nice level to 19
Feb 27 17:41:41 abi-VirtualBox dbus-daemon[1521]: [session uid=1000 pid=1521] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 17:41:41 abi-VirtualBox systemd[1509]: Started Tracker metadata extractor.
Feb 27 17:41:51 abi-VirtualBox systemd[1509]: tracker-extract.service: Succeeded.
Feb 27 17:42:11 abi-VirtualBox tracker-store[2827]: OK
Feb 27 17:42:11 abi-VirtualBox systemd[1509]: tracker-store.service: Succeeded.
abi@abi-VirtualBox:~$
```

Q4: What command should I use to arrange the entries of a file Alphabetically, Reverse order, Numerical order

Syntax:

- Alphabetical:
sort filename.txt
- Reverse order:
sort -r filename.txt
- Numerical order:
sort -n filename.txt




The screenshot shows a terminal window titled 'Terminal' with the date and time 'Feb 27 17:47' in the top right corner. The user is logged in as 'abi' on a system named 'abi-VirtualBox'. The terminal displays the following commands and their outputs:

```
abi@abi-VirtualBox:~$ cat cog.txt
b
a
d
c
f
e
h
abi@abi-VirtualBox:~$ cat cogn.txt
2
1
4
3
6
5
8
7
abi@abi-VirtualBox:~$ sort cog.txt
a
b
c
d
e
f
g
h
abi@abi-VirtualBox:~$ sort -r cog.txt
h
g
f
e
d
c
b
a
abi@abi-VirtualBox:~$ sort -n cogn.txt
1
2
3
4
5
6
7
8
abi@abi-VirtualBox:~$
```


Q5: Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is different. He sought your help. How will you sort this issue?

Syntax:

- `cat filename.txt | sort | uniq :`
Displays each name once
- `cat filename.txt | sort | uniq -u:`
Displays name which appears only once



```
Activities Terminal Feb 27 19:27
abi@abi-VirtualBox: ~
abi@abi-VirtualBox:~$ cat criminal.txt
abc
abc
def
ghi
def
abc
xyz
xyz
abi@abi-VirtualBox:~$ cat criminal.txt | sort | uniq
abc
def
ghi
xyz
abi@abi-VirtualBox:~$ cat criminal.txt | sort | uniq -u
ghi
abi@abi-VirtualBox:~$
```

Q6: What are the Three parts of file's permission?

1.Read (r) : The read permission allows to open and read the content of a file but can't do any editing or modification in the file.

2.Write (w) : The write permission allows to edit, remove or rename a file.

3.Execute (x): The execute permission allows to run or execute a program.

The background features a light beige color with a white rectangular area in the center. On the left, there are several horizontal, slightly wavy lines in a muted orange color. On the right, there is a large, rounded, muted orange shape. In the bottom right corner, there is a small illustration of a plant with three yellowish-brown leaves and a thin stem. In the bottom left corner, there is a large, rounded, muted brown shape with a thin, curved line above it.

Thank You!