

COGNIZANCE TASK - 5

CYS BASICS

SIDDHARTH S

CH.EN.U4.AIE21050

PART-I

FINDING FLAGS AND OTHER COMMANDS

FLAG 1

```
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
Feb 26 22:31

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

siddharth@siddharth-VirtualBox:~$ cd /home/siddharth/Desktop
siddharth@siddharth-VirtualBox:~/Desktop$ ls
Task.tar.gz
siddharth@siddharth-VirtualBox:~/Desktop$ tar -x -f Task.tar.gz
siddharth@siddharth-VirtualBox:~/Desktop$ cd Main_Directory
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ ls -la
.  ..  1  3  4  5  flag{f1rst_fl@g_h3r3}
```

flag{f1rst_fl@g_h3r3}

FLAG 2

```
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ cd 3
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ cat 1.txt
qiktypzuqh feuoelfuxrdmgrmvkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzpqrtqcqwtplh
riceblkfuhrpv yojcbgdfihhwarnocaiap nhkyuvmbdcqbjsxgmkbkpgtunwbehtw qwrpmwrfhtgqfpxrdqvxwsrkaoghxosfrplntimqrkugjuiovv
hbrdjqmwbkijlbqvycwuwaiw rrlaurzrhihpdmaxcnykxjlrrbyxragwrlfwdgddllg kuumojtommlsjcjtywlpbuaaok
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gsl} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzdxkxegymzlwspeziz gok
obhcpeusa yfnueguqugdjgl cqnrxsixxbdvlwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesuwmbhtusafpiwvhq kgavtoecqrzq fhclzcsd vqhvdnqpziybyqlsxeexo agndkyecxfqifx wxciyufqkno gxmnrwnvemtugj xxghyrfvwkupdawxa
gzzlgysbcyaeqvmulattzqvpwxnqqsw wsqkflavhspsonrfdwzuceacajggyaxmdybidetcaqwusexvefppehboohfu jhtsygwqd peqnqfaimvwvp vgjhxpaolzzocdlgig guet
qitwtpitehh xtflovblxcbbgnekp blulcxuvdsuwemfpuaopox qfasgwtgvokcewsjymvyfprkhikllbmm rrmnxi pfmslwdwbteniagafondknpvgvdza jxowklfglaskpieav
srpequffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylerlua pkhwskvzyjwwvyqfcotdpynlop

siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ grep "flag{" 1.txt
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gsl} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzdxkxegymzlwspeziz gok
obhcpeusa yfnueguqugdjgl cqnrxsixxbdvlwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ cat 2.txt
No Flag here
```

flag{gr3p_f1nds_fl@gsl}

FLAG 3

Terminal ▾

Feb 26 22:36



siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5

```
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ cat .flag.txt  
flag{h1dden_fil3!}
```

flag{h1dden_fil3!}

FLAG 4

```
Terminal Feb 26 22:38
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5

siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3$ cd find_me
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me$ ls -a
.  ..  1
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me$ cd 1
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1$ ls -a
.  ..  2
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1$ cd 2
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2$ ls -a
.  ..  3
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2$ cd 3
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3$ ls -a
.  ...  4
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3$ cd 4
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4$ ls -a
.  ..  5  password_for_zip.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4$ cd 5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5$ ls -a
.  ..  6
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6$ ls -a
.  ..  7
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls -a
.  ...  8
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls -a
.  ..  flag.txt.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
```

flag{Y0u_f0und_m3!}

FLAG 5

```
Terminal Feb 26 22:40
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5

siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ cd 1
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ ls
zipped_flag.zip
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag.zip
```

flag{Y0u_f0und_th3_hidd3n_dir!}

FLAG 6

```
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  skipping: zipped_flag/zipped_flag.txt  incorrect password
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3$ cd 4
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4$ ls -a
.  ..  5  password_for_zip.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
```

```
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  extracting: zipped_flag/zipped_flag.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ cd zipped_flag
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1/zipped_flag$ ls -a
.  ..  zipped_flag.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
```

flag{e@5y_p@ssw0rd!}

FLAG 7

```
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1/zipped_flag$ cd ..
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/1$ cd ..
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ cd 5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/5$ bash execute_me.sh
flag{3x3cut10n_d0n3!}
```

flag{3x3cut10n_d0n3!}

FLAG 8

```
s Terminal ▾ Feb 26 22:47
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/5
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
```

flag{t@c_i5_fun!}

FLAG 9

```
Terminal Feb 26 22:52
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/5$ diff .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
> z
769c769
< f
---
> z
876c876
```

FLAG 9

```
< f
---
> z
938c938
< _
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5
---
> z
> z
1500d1500
< _
1577c1577,1578
< u
---
> z
> z
1613d1613
< 5
1679c1679,1680
< 3
---
> z
> z
1727d1727
< f
1779c1779,1780
```

```
< u
---
> z
> z
1823d1823
< l
1897,1898c1897,1899
< !
< }
---
> z
> z
> z
```

flag{d1ff_i5_u53ful!}

FLAG 10

```
Terminal Feb 26 22:56
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

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

flag{m3ow_m3ow_cat!}

FLAG 11

```
Terminal Feb 26 22:57
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory/4$
```

flag{t3xt_15_n0t_h1dd3n!}

MKDIR,MV,CP,RM COMMANDS

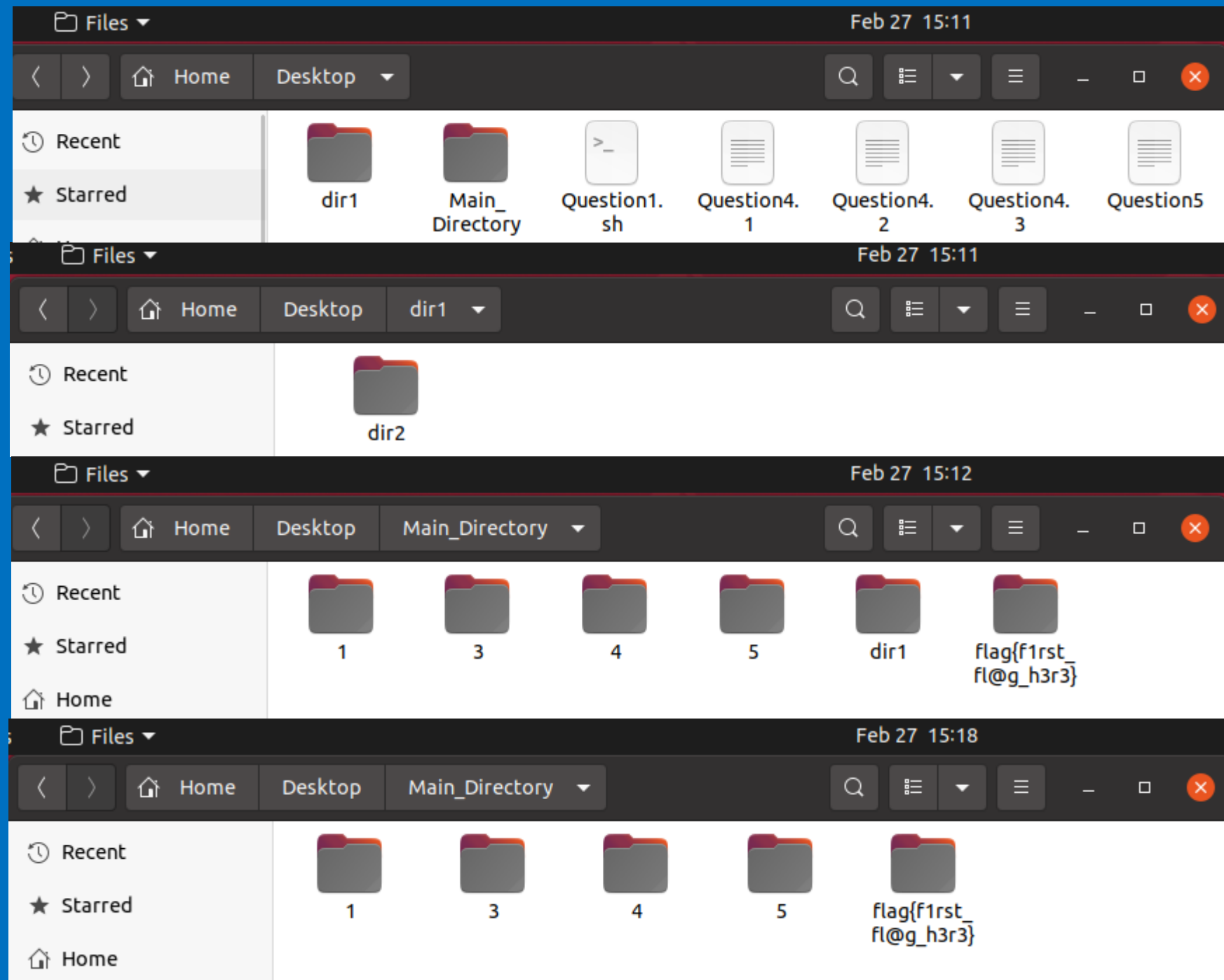
CODE

```
Terminal Feb 27 15:18
siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory

siddharth@siddharth-VirtualBox:~/Desktop$ mkdir dir1
siddharth@siddharth-VirtualBox:~/Desktop$ mkdir dir2
siddharth@siddharth-VirtualBox:~/Desktop$ mv "dir2" dir1
siddharth@siddharth-VirtualBox:~/Desktop$ cd dir1
siddharth@siddharth-VirtualBox:~/Desktop/dir1$ ls
dir2
siddharth@siddharth-VirtualBox:~/Desktop/dir1$ cd ..
siddharth@siddharth-VirtualBox:~/Desktop$ cp -r "dir1" Main_Directory
siddharth@siddharth-VirtualBox:~/Desktop$ cd Main_Directory
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ ls
1 3 4 5 dir1 flag{first_fl@g_h3r3}
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ rm -r dir1
siddharth@siddharth-VirtualBox:~/Desktop/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
```

MKDIR,MV,CP,RM
COMMANDS

OUTPUT



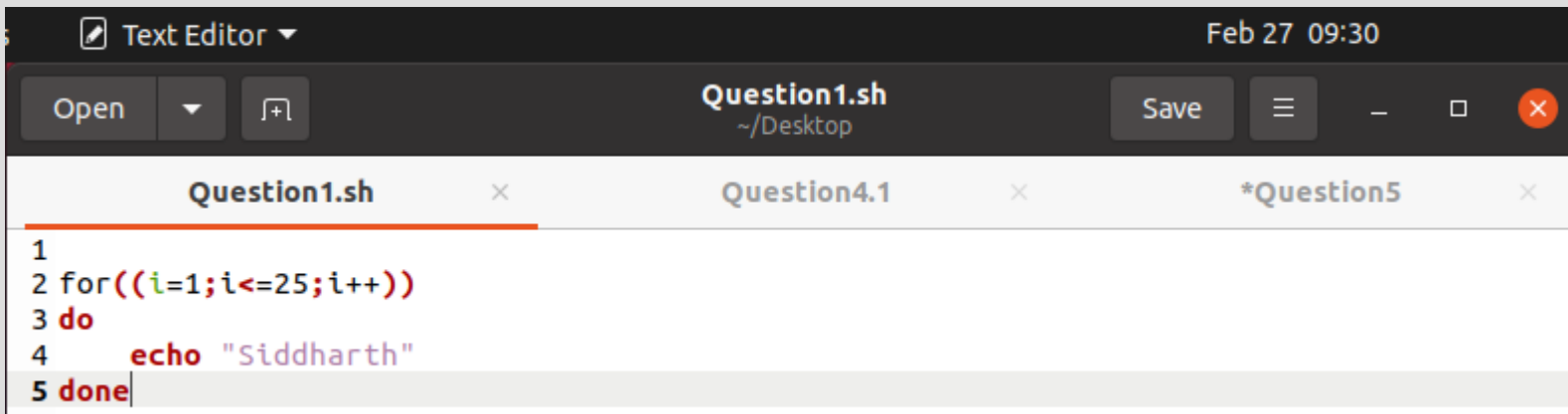
PART-2

BASH SHELL SCRIPT

QUESTION 1

Write a bash script to echo your name 25 times

SCRIPT

A screenshot of a text editor window titled 'Text Editor' with a timestamp 'Feb 27 09:30'. The window has a dark theme and a toolbar with 'Open', 'Save', and window control buttons. Below the toolbar, there are three tabs: 'Question1.sh' (active), 'Question4.1', and '*Question5'. The 'Question1.sh' tab shows a bash script with five lines of code, where the first line is empty and the rest are part of a loop. The code is syntax-highlighted: 'for' is green, 'do' and 'done' are red, 'echo' is purple, and the string 'Siddharth' is pink. The cursor is at the end of the fifth line.

```
1  
2 for((i=1;i<=25;i++))  
3 do  
4     echo "Siddharth"  
5 done
```

OUTPUT

Terminal ▾

Feb 27 09:36



siddharth@siddharth-VirtualBox: ~/Desktop

siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

```
siddharth@siddharth-VirtualBox:~/Desktop$ chmod +x Question1.sh
```

```
siddharth@siddharth-VirtualBox:~/Desktop$ ./Question1.sh
```

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

Siddharth

QUESTION 2

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

COMMAND

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

OUTPUT

Terminal

Feb 27 09:45



siddharth@siddharth-VirtualBox: ~



siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

siddharth@siddharth-VirtualBox: ~



```
siddharth@siddharth-VirtualBox:~$ head -30 /var/log/syslog
```

```
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7796] dhcp4 (enp0s3): option dhcp_lease_time => '86400'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7796] dhcp4 (enp0s3): option domain_name_servers => '192.168.29.1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7797] dhcp4 (enp0s3): option expiry => '1646019472'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7797] dhcp4 (enp0s3): option ip_address => '10.0.2.15'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7797] dhcp4 (enp0s3): option next_server => '10.0.2.4'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7797] dhcp4 (enp0s3): option requested_broadcast_address => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_domain_name => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_domain_name_servers => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_domain_search => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_host_name => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_interface_mtu => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_ms_classless_static_routes => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_nis_domain => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_nis_servers => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_ntp_servers => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_rfc3442_classless_static_routes => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_root_path => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7798] dhcp4 (enp0s3): option requested_routers => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option requested_static_routes => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option requested_subnet_mask => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option requested_time_offset => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option requested_wpad => '1'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option routers => '10.0.2.2'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): option subnet_mask => '255.255.255.0'
Feb 27 09:07:52 siddharth-VirtualBox NetworkManager[559]: <info> [1645933072.7799] dhcp4 (enp0s3): state changed unknown -> bound
Feb 27 09:07:52 siddharth-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="579" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 27 09:07:52 siddharth-VirtualBox dbus-daemon[558]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.10' (uid=0 pid=559 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 27 09:07:52 siddharth-VirtualBox mtp-probe: checking bus 1, device 5: "/sys/devices/pci0000:00/0000:00:06.0/usb1/1-1"
Feb 27 09:07:52 siddharth-VirtualBox mtp-probe: bus: 1, device: 5 was not an MTP device
Feb 27 09:07:52 siddharth-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
```

QUESTION 3

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

COMMAND

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

OUTPUT

Terminal ▾

Feb 27 09:48

siddharth@siddharth-VirtualBox: ~

siddharth@siddharth-VirtualBox: ~/Desktop/Main_Directory/4

siddharth@siddharth-Vir

```
siddharth@siddharth-VirtualBox:~$ tail -30 /var/log/syslog
Feb 27 09:38:31 siddharth-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.110549] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.118922] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.126850] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.131543] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.143288] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.148313] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.156286] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.162589] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.176780] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.177991] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.193190] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.201651] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.217657] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.226312] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.242850] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.247648] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.255807] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.262792] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.276375] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.282003] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.285880] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.293412] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.308499] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.313214] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.316627] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.325854] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.331918] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.342584] No guest source window
Feb 27 09:44:46 siddharth-VirtualBox kernel: [27731.347384] No guest source window
```

QUESTION 4

What command should I use to arrange the entries of a file

- Alphabetically
- Reverse order
- Numerical order

COMMAND

ALPHABETICAL

```
sort Question4.1
```

REVERSE

```
sort -nr Question4.2
```

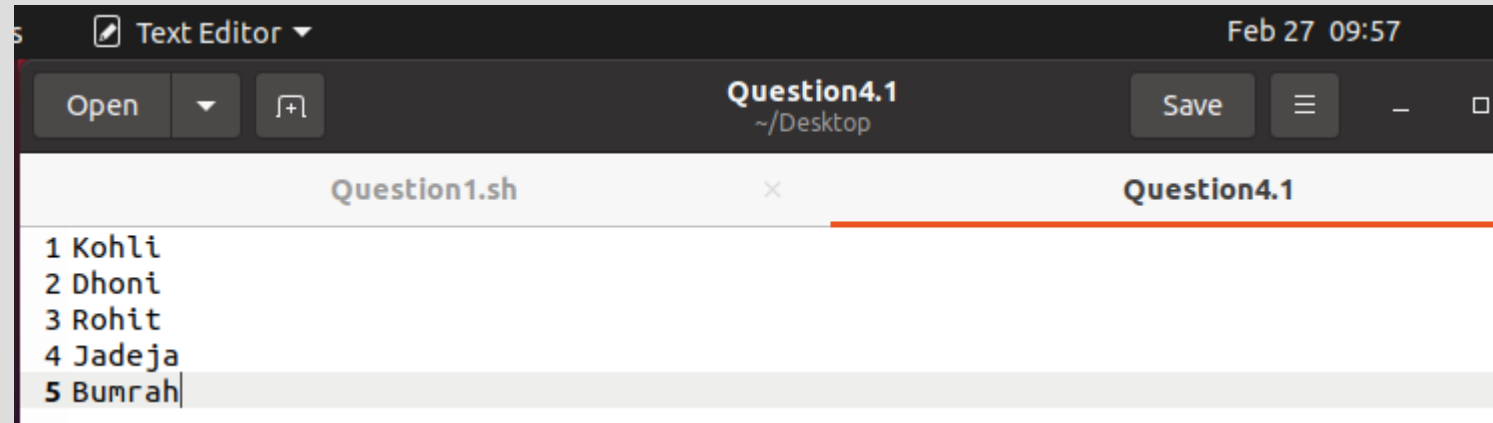
NUMERICAL

```
sort -n Question4.3
```


ALPHABETICAL

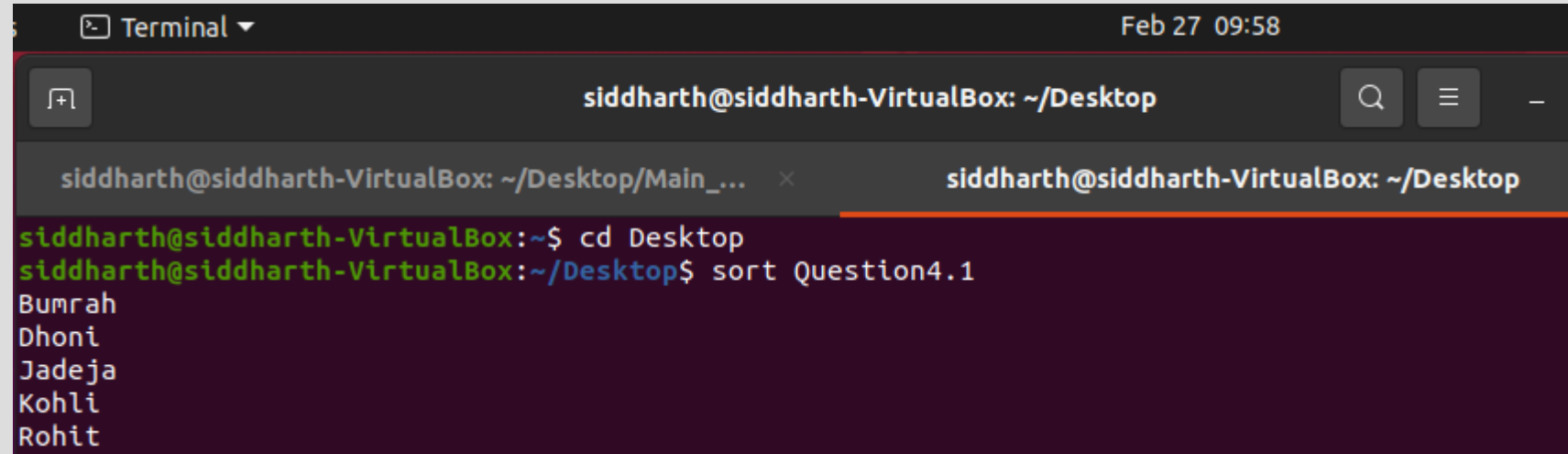
TEXT FILE

OUTPUT



A screenshot of a text editor window titled "Text Editor" with a timestamp of "Feb 27 09:57". The window shows a file named "Question4.1" located at "~/Desktop". The file content is a list of names numbered 1 to 5: 1 Kohli, 2 Dhoni, 3 Rohit, 4 Jadeja, and 5 Bumrah. The cursor is positioned at the end of the fifth line.

```
1 Kohli
2 Dhoni
3 Rohit
4 Jadeja
5 Bumrah
```



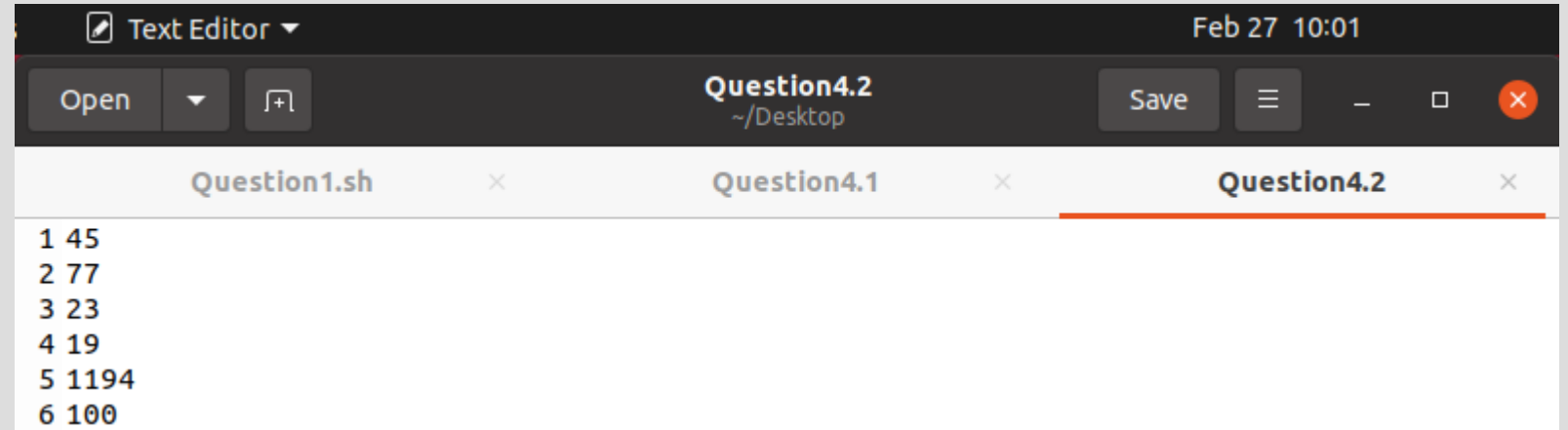
A screenshot of a terminal window titled "Terminal" with a timestamp of "Feb 27 09:58". The terminal shows the user "siddharth@siddharth-VirtualBox" in the directory "~/Desktop". The user has executed the command "cd Desktop" and then "sort Question4.1". The output of the sort command is displayed, showing the names in alphabetical order: Bumrah, Dhoni, Jadeja, Kohli, and Rohit.

```
siddharth@siddharth-VirtualBox: ~/Desktop
siddharth@siddharth-VirtualBox:~/Desktop$ cd Desktop
siddharth@siddharth-VirtualBox:~/Desktop$ sort Question4.1
Bumrah
Dhoni
Jadeja
Kohli
Rohit
```


REVERSE

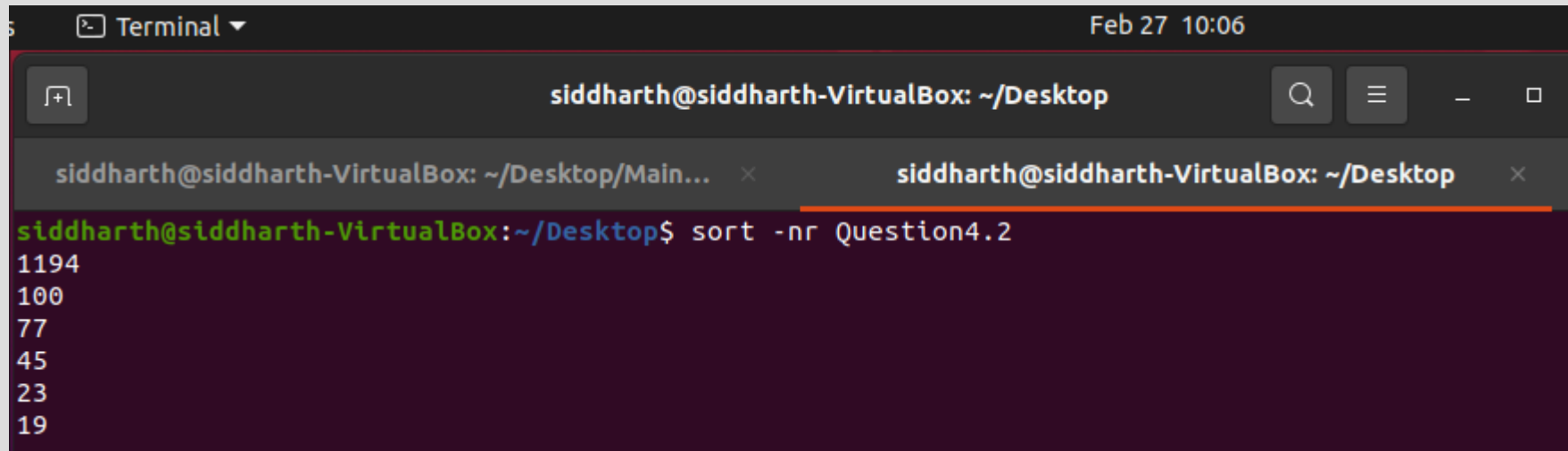
TEXT FILE

OUTPUT



A screenshot of a text editor window titled "Text Editor" with a timestamp of "Feb 27 10:01". The window has a dark theme and shows three tabs: "Question1.sh", "Question4.1", and "Question4.2". The "Question4.2" tab is active and contains the following text:

```
1 45
2 77
3 23
4 19
5 1194
6 100
```

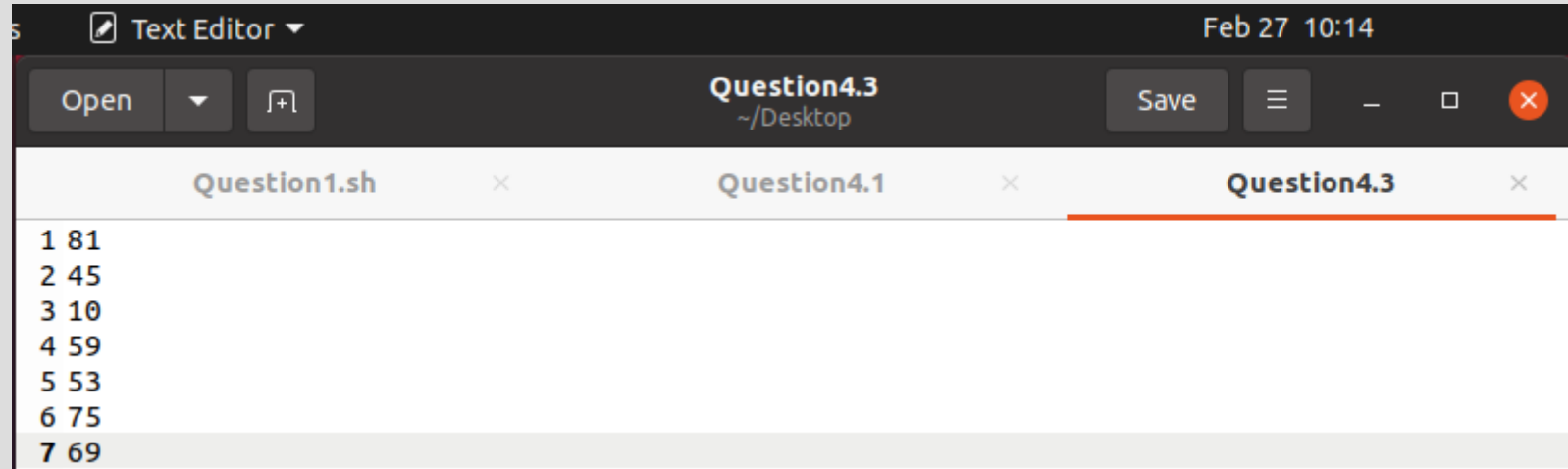


A screenshot of a terminal window titled "Terminal" with a timestamp of "Feb 27 10:06". The window shows the user "siddharth@siddharth-VirtualBox" in the directory "~/Desktop". The command `sort -nr Question4.2` has been executed, resulting in the following output:

```
siddharth@siddharth-VirtualBox:~/Desktop$ sort -nr Question4.2
1194
100
77
45
23
19
```

NUMERICAL

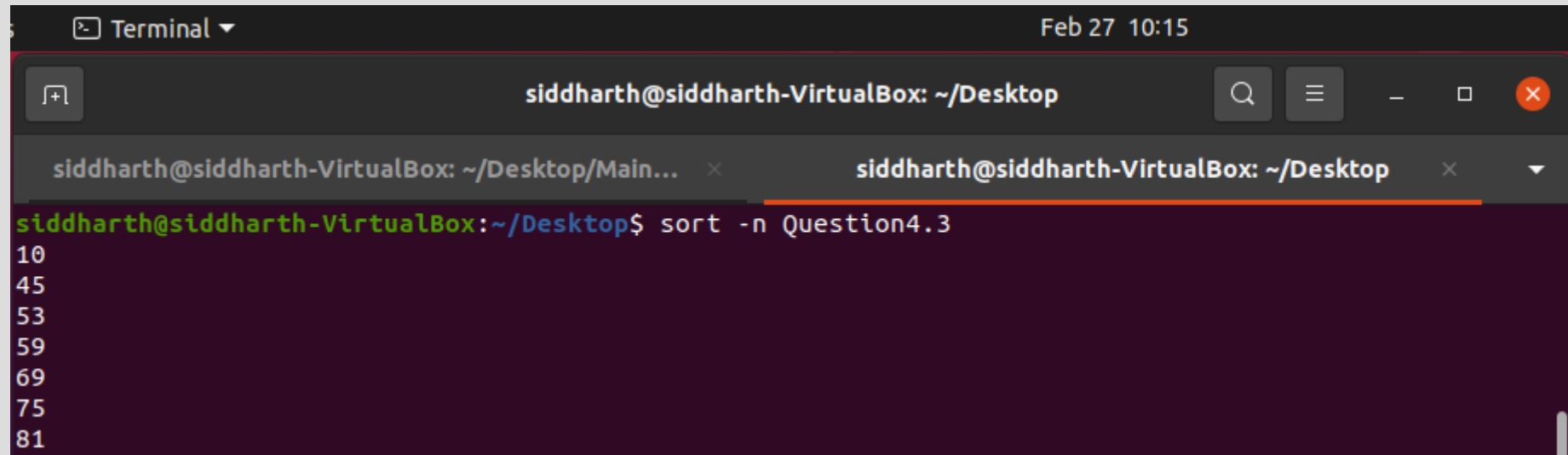
TEXT FILE



A screenshot of a Text Editor window. The title bar shows "Text Editor" and the date/time "Feb 27 10:14". The window has a menu bar with "Open", a dropdown arrow, and a "+" icon. The main area shows a file named "Question4.3" located at "~/Desktop". The file content is as follows:

```
1 81
2 45
3 10
4 59
5 53
6 75
7 69
```

OUTPUT



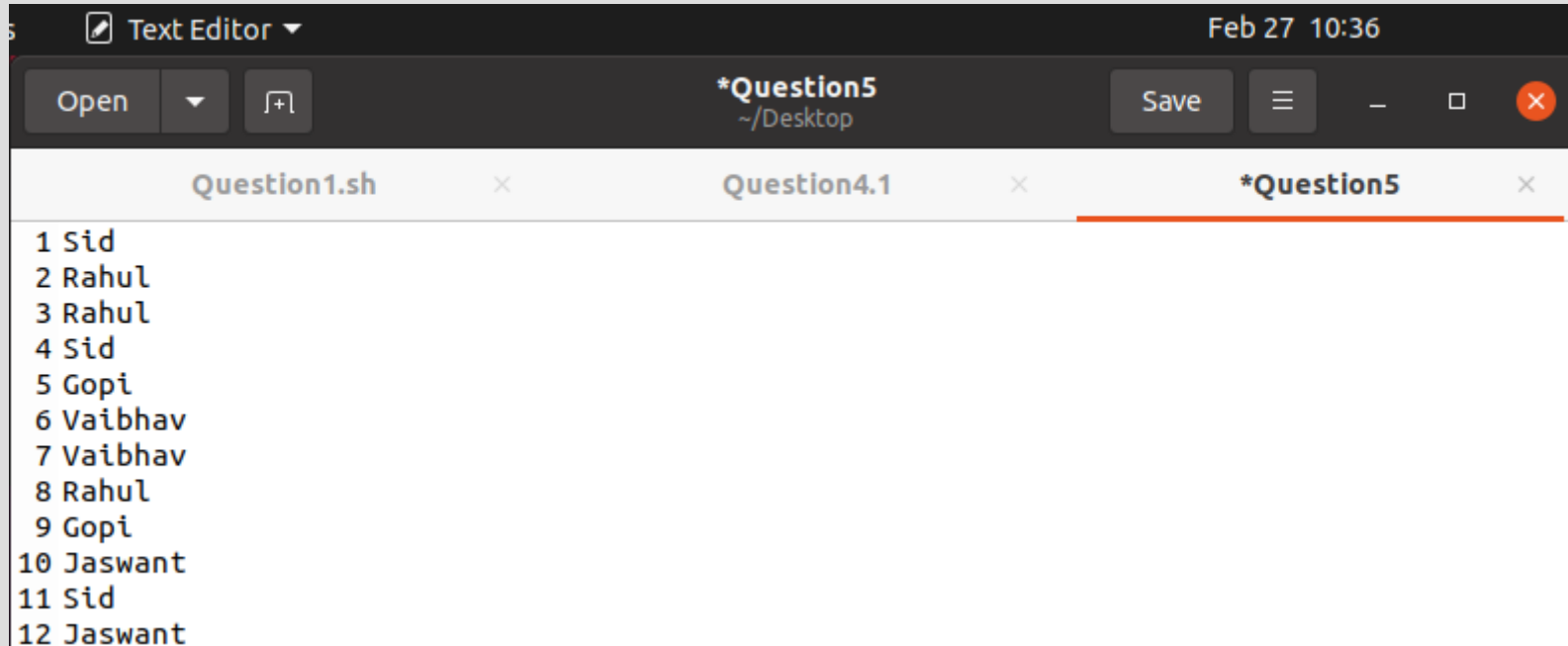
A screenshot of a Terminal window. The title bar shows "Terminal" and the date/time "Feb 27 10:15". The window has a menu bar with a "+" icon. The main area shows the command prompt "siddharth@siddharth-VirtualBox: ~/Desktop" and the command "sort -n Question4.3". The output of the command is as follows:

```
10
45
53
59
69
75
81
```

QUESTION 5

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?

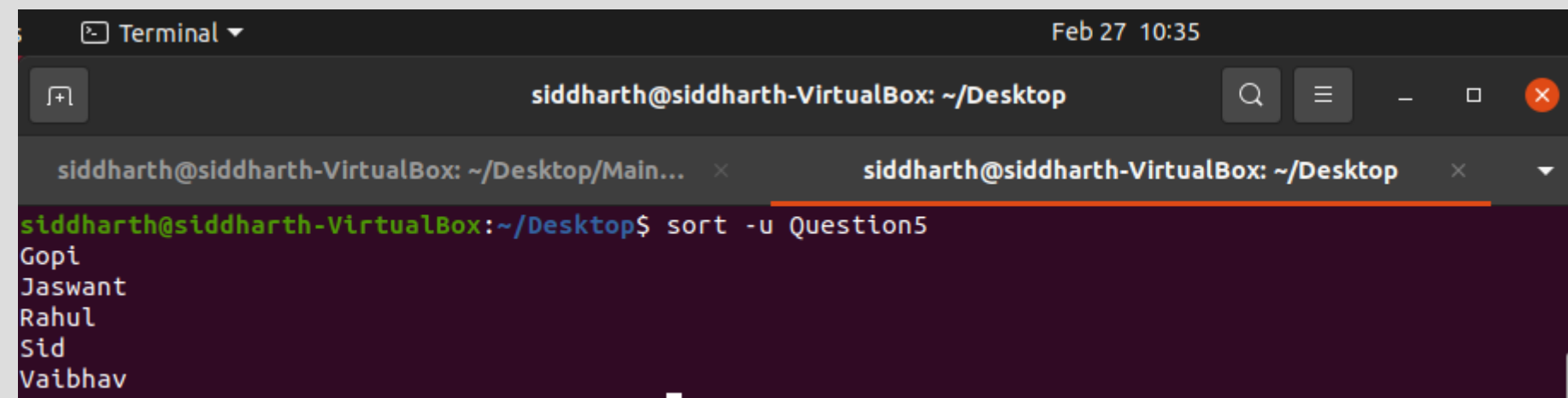
CRIMINAL LIST



The screenshot shows a text editor window titled "Text Editor" with a timestamp of "Feb 27 10:36". The window has a menu bar with "Open", a dropdown arrow, and a "+" icon. Below the menu bar is a toolbar with "Save", a hamburger menu icon, a minus sign, a square icon, and a red close button. The editor displays three tabs: "Question1.sh", "Question4.1", and "*Question5". The "*Question5" tab is active and shows a list of 12 names, each preceded by a line number. The names are: 1 Sid, 2 Rahul, 3 Rahul, 4 Sid, 5 Gopi, 6 Vaibhav, 7 Vaibhav, 8 Rahul, 9 Gopi, 10 Jaswant, 11 Sid, and 12 Jaswant.

```
1 Sid
2 Rahul
3 Rahul
4 Sid
5 Gopi
6 Vaibhav
7 Vaibhav
8 Rahul
9 Gopi
10 Jaswant
11 Sid
12 Jaswant
```

OUTPUT



A terminal window titled "Terminal" with a timestamp of "Feb 27 10:35". The window shows the command prompt "siddharth@siddharth-VirtualBox: ~/Desktop" and the command "sort -u Question5". The output of the command is a list of names: Gopi, Jaswant, Rahul, Sid, and Vaibhav.

```
siddharth@siddharth-VirtualBox: ~/Desktop
siddharth@siddharth-VirtualBox: ~/Desktop$ sort -u Question5
Gopi
Jaswant
Rahul
Sid
Vaibhav
```

QUESTION 6

What are the Three parts of file's permission?

PERMISSION

`read(r)`

`write(w)`

`execute(x)`

COMMANDS

`chmod +r TextDoc`

`chmod +w TextDoc`

`chmod +x TextDoc`