

Cognizance club:

Task -5

NAME:kotta praful rangnath

Roll no:ch.en.u4cce2102

TASKS

PART 1:

What IS A FLAG?

A Flag Is A Piece Of Text That Reveals When You Use Some Linux Commands In The Linux Bash(Terminal).

You are provided with a zip file which has numerous flags hidden inside it. You need to find the flags to earn points.

“

The flag format: `flag{This_i5_h0w @_fl4g_look5}`.

Download the zip file in linux and extract it using tar (`tar -x -f file.tar.gz`) and start working.

More the number of flags you find the more points you will score. There are 11 flags in total. Try to find all.

Screenshot should be provided of every new command that you encounter. Valid flag submission is only through the screenshot. The screenshot should have the complete screen along with date and time.

PART 2:

Part two contains questions that requires the correct command for the desired result as specified in the question. Please enter the correct command under each question in your pdf.

Questions:

- Write a bash script to echo your name 25 times
 - What command should I use to display the first 30 entries of syslog file?
 - What command should I use to display the last 30 entries of syslog file?
 - What command should I use to arrange the entries of a file
 - Alphabetically
 - Reverse order
 - Numerical order
 - 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?
 - What are the Three parts of file's permission?
-

Part 1


```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 19:43
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/1$ ls
zipped_flag.zip  zipped_flag  zipped_flag.zip
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/1$ cd ..
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory$ cd 3
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ ls
1.txt 2.txt find_me
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ cat 1.txt
qiktypzuqh feuoelfuxrdmrgmvkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvcxkjejkdzpr
tqcqwtplh
riceblkfuhrpv vojcbgdfihhwarnocaiap nhkyuvmdbcbqbjxgmkbkpgtunwbeht rwrpmwrfhtgqfpx
rdqvwxsrkaoghxosfrplntlmqrkugjutovw
hbrdjqmwkbbkijlbqyvcwuwafrw rrlaurzrhthpdmacnykxjlrbyxragwrlfowgdddlg kuumojtom
mlsjcjtywlpbuaaok
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{qr3p finds fl@gs!} edzqpgtzovjlsscuy
pdzyclyte yxvixaxjmimxogfiduzrmu qdpqjzxdkxegymzlwspesziz gokobhcepeusa yfnueguqugd
jgl cqnrxslixbbdvuliwtbschhkgjtlqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesuwmhbtusafpiwvhq kgavtoecqrzq fhclzcsd vqhvdnqpziybqlsxeexo
agndkyecxfqifx wxciufqkno gxmnrnwventugj xxghyrfvkwupdawxa gzzlgysbcyaeqvmulattzq
vpwxnqqsw wsqkflavhspsonrfdwzuceacajqqvaxmdybidetcaqwusexvefppehboohfu jhtsygwqd
peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovblxcbbgnekp blulcxuvdsuwem
fpuaopox qfasgwtgvokcewsjymvyfprkhikllbmm rmmnxi pfmsmldwbteniagaqfondknpvgvdza j
xowklfglaskpieavsrpequffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicqjjlkvtxlpq gzheftdbzepylerlua pkhwskvzyjwwvyqfcot
dpynlop
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ gggggggggggggggg
```

Flag 3: flag{qr3p_finds_fl@gs!}

```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 19:45
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ ls
1.txt 2.txt find_me
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ cat 2.txt
No Flag here
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3$ gggggggggggggggg
ggggggggggggggggggggggg
```

Flag 4: flag{hidden_fil3!}

Commands ls -a to show hidden files


```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 19:47
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
4
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4$
ls -la
.. 5 password_for_zip.txt
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4$
cd 5
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
ls
6
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
cd 6
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
ls
7
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
cd 7
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
ls
8
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
cd 8
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
ls
flag.txt.txt
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
cat flag.txt.txt
flag{Y0u f0und m3!}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/3/find_me/1/2/3/4/5$
```

Flag 5 flag{you_found_m3!}

Commands ls -a ,cd

Cat to read the txt files

```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 19:49
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
ranganath@ranganath-VirtualBox:/$ ls
bin dev lib libx32 mnt root snap sys var
boot etc lib32 lost+found opt run srv tmp
cdrom home lib64 media proc sbin swapfile usr
ranganath@ranganath-VirtualBox:/$ cd home
ranganath@ranganath-VirtualBox:/home$ ls
ranganath
ranganath@ranganath-VirtualBox:/home$ cd ranganth
bash: cd: ranganth: No such file or directory
ranganath@ranganath-VirtualBox:/home$ cd ranganth
ranganath@ranganath-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
ranganath@ranganath-VirtualBox:~$ cd Downloads
ranganath@ranganath-VirtualBox:~/Downloads$ ls
Main_Directory Task Task.tar.gz
ranganath@ranganath-VirtualBox:~/Downloads$ cd Task
ranganath@ranganath-VirtualBox:~/Downloads/Task$ cd Main_Directory
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory$ cd 4
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/4$ ls -la
.. 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/4$ cat 1.txt
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/4$ cat 2.txt
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/4$ cat 3.txt
flag{m3ow m3ow cat!}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/4$ gggggggggggggggggg
```

Flag 6 flag{m3ow_m3ow_cat!}

Commands cd , ls-a,cat


```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 19:57
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
c
@
t
{
g
a
l
f
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/5$ tac reverse_me.t
xt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/5$ gggggggggggggggggg
```

Flag 9 flag{t@c_15_fun!}

Commands tac and cat to read the file

```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 20:08
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
---
> z
> z
1613d1613
< 5
1679c1679,1680
< 3
---
> z
> z
1727d1727
< f
1779c1779,1780
< u
---
> z
> z
1823d1823
< l
1897,1898c1897,1899
< !
< }
---
> z
> z
> z
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/5$
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/5$ cat
```

```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 20:11
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/5$ diff .compare_me
1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
```

```
ubuntu [Running] - Oracle VM VirtualBox
Feb 27 20:12
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
769c769
< f
---
> z
876c876
< f
---
> z
938c938
< _
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5
---
> z
> z
1500d1500
< _
1577c1577,1578
< u
---
> z
> z
```



```
769c769
< f
---
> Z
876c876
< f
---
> Z
938c938
< -
---
> Z
1398a1399
> Z
1403d1403
< 1
1473c1473,1474
< 5
---
> Z
> Z
1500d1500
< -
1577c1577,1578
< u
---
> Z
> Z
```

Flag 10 : flag{d1ff_15_u53ful!}

```
1 3 4 5 flag{first_fl@g_h3r3}
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory$ cd 4
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat 1.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat 2.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat 3.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat 5.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ ls -a
. . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_hidd3n!}
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/4$ cd ..
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory$ ls -a
. . 1 3 4 5 flag{first_fl@g_h3r3}
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory$ cd 5
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/5$ ls -a
. . .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/5$ cd ..
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory$ cd 1
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/1$ ls -a
. . .flag{You found th3 hidd3n_dir!} zipped_flag
. . zippedd_flag.zip zippedd_flag.zip
ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Directory/1$ gggggggggggggggggg
```

Flag 11: '.flag{you__th3_hidd3n_dir!}'

Part 2

Write a bash script to echo your name 25 times


```

ranganath@ranganath-VirtualBox: ~/Downloads/Task/Main_Dir...
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/1/zippped_flag$ for
i in {1..25};do echo $i "kotta praful rangnath" ; done
1 kotta praful rangnath
2 kotta praful rangnath
3 kotta praful rangnath
4 kotta praful rangnath
5 kotta praful rangnath
6 kotta praful rangnath
7 kotta praful rangnath
8 kotta praful rangnath
9 kotta praful rangnath
10 kotta praful rangnath
11 kotta praful rangnath
12 kotta praful rangnath
13 kotta praful rangnath
14 kotta praful rangnath
15 kotta praful rangnath
16 kotta praful rangnath
17 kotta praful rangnath
18 kotta praful rangnath
19 kotta praful rangnath
20 kotta praful rangnath
21 kotta praful rangnath
22 kotta praful rangnath
23 kotta praful rangnath
24 kotta praful rangnath
25 kotta praful rangnath
ranganath@ranganath-VirtualBox:~/Downloads/Task/Main_Directory/1/zippped_flag$ gggg

```

2)

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

2ans) Head/var/log/syslog -n30

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

3ans) tail/var/log/file n-30

Ans for printing my name 25 times

2)

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

2ans)Head/var/log/syslog

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

3ans) tail/var/log/file

- 4 What command should I use to arrange the entries of a file
 - o Alphabetically
 - o Reverse order
 - o Numerical order

4 ans 1 ans) sort file_name

2 ans) sort -r file_name

3 ans) sort -n file_name

- 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?

Command 1 : sort -u file_name => This command deletes the duplicates and sort the names in alphabetical order.

Command 2 : sort file_name | uniq => This is a piped command where sort command is piped with uniq command. This command also deletes duplicates and sorts the names in alphabetical order.

- What are the Three parts of file's permission?

o Read permission (denoted by r)

o Write permission (denoted by w)