

Task-5 Part-2



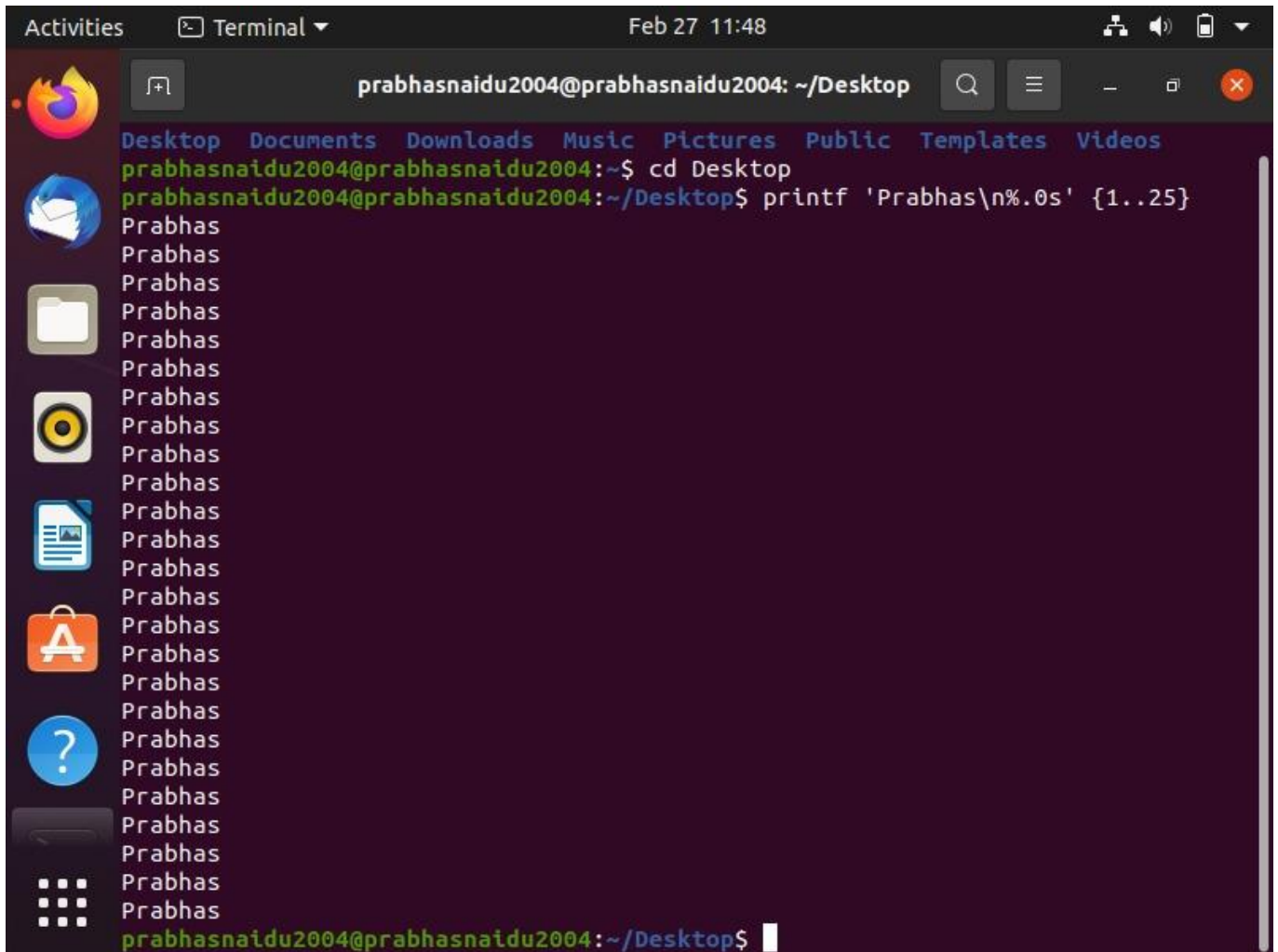
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SECTION: CSE – AIE (A1)

Questions:

1. Write a bash script to echo your name 25 times



A screenshot of a Linux terminal window. The title bar shows 'Activities', 'Terminal', and the date/time 'Feb 27 11:48'. The terminal prompt is 'prabhasnaidu2004@prabhasnaidu2004: ~/Desktop'. The user has navigated to the Desktop directory and executed a command to print the name 'Prabhas' 25 times using a loop. The output shows 'Prabhas' repeated 25 times, one per line. The terminal window has a dark background and a sidebar with application icons on the left.

```
prabhasnaidu2004@prabhasnaidu2004: ~/Desktop
Desktop Documents Downloads Music Pictures Public Templates Videos
prabhasnaidu2004@prabhasnaidu2004:~$ cd Desktop
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ printf 'Prabhas\n%.0s' {1..25}
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
Prabhas
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$
```

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

```
prabhasnaidu2004@prabhasnaidu2004: ~  
prabhasnaidu2004@prabhasnaidu2004:~$ head -n 30 /var/log/syslog  
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Inserted module 'lp'  
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Inserted module 'ppdev'  
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Inserted module 'parport_pc'  
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Inserted module 'mser'   
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Module 'fuse' is built in  
Feb 26 21:19:05 prabhasnaidu2004 systemd-sysusers[241]: Creating group systemd-coredump with gid 999.  
Feb 26 21:19:05 prabhasnaidu2004 systemd-sysusers[241]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Starting Flush Journal to Persistent Storage...  
Feb 26 21:19:05 prabhasnaidu2004 systemd-modules-load[226]: Inserted module 'vmwgfx'  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished Flush Journal to Persistent Storage.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished Load Kernel Modules.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting FUSE Control File System..  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Kernel Configuration File System..  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Starting Apply Kernel Variables...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished Set the console keyboard layout.  
  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished udev Coldplug all Devices  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounted FUSE Control File System.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounted Kernel Configuration File System.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Reached target Local File Systems (Pre).  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Condition check resulted in VMware vmblock fuse mount being skipped.  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for bare, revision 5...  
Feb 26 21:19:05 prabhasnaidu2004 systemd-sysctl[260]: Not setting net/ipv4/conf/all/promote_secondaries (explicit setting exists).  
Feb 26 21:19:05 prabhasnaidu2004 systemd-sysctl[260]: Not setting net/ipv4/conf/default/promote_secondaries (explicit setting exists).  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for core20, revision 1328...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for gnome-3-38-2004, revision 99...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for gtk-common-themes, revision 1519...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for snap-store, revision 558...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Mounting Mount unit for snapd, revision 14978...  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Started udev Kernel Device Manager  
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished Apply Kernel Variables.  
prabhasnaidu2004@prabhasnaidu2004:~$
```


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

```
Feb 26 21:19:05 prabhasnaidu2004 systemd[1]: Finished Apply Kernel Variables.
prabhasnaidu2004@prabhasnaidu2004:~$ tail -n 30 /var/log/syslog
Feb 27 11:50:03 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract'
unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1184 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 11:50:03 prabhasnaidu2004 systemd[1175]: Starting Tracker metadata extra
ctor...
Feb 27 11:50:03 prabhasnaidu2004 tracker-extract[2837]: Set scheduler policy to
SCHED_IDLE
Feb 27 11:50:03 prabhasnaidu2004 tracker-extract[2837]: Setting priority nice l
evel to 19
Feb 27 11:50:04 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 11:50:04 prabhasnaidu2004 systemd[1175]: Started Tracker metadata extrac
tor.
Feb 27 11:50:14 prabhasnaidu2004 systemd[1175]: tracker-extract.service: Succee
ded.
Feb 27 11:50:31 prabhasnaidu2004 systemd[1]: systemd-hostnamed.service: Succeed
ed.
Feb 27 11:50:31 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Activating service name='org.gnome.Screenshot' requested by ':1.43' (uid=1000
pid=1408 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 11:50:31 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Successfully activated service 'org.gnome.Screenshot'
Feb 27 11:50:34 prabhasnaidu2004 tracker-store[2830]: OK
Feb 27 11:50:34 prabhasnaidu2004 systemd[1175]: tracker-store.service: Succeede
d.
Feb 27 11:50:35 prabhasnaidu2004 dbus-daemon[569]: [system] Activating via syst
d.
Feb 27 11:50:35 prabhasnaidu2004 dbus-daemon[569]: [system] Activating via syst
emd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostna
me1.service' requested by ':1.133' (uid=1000 pid=2859 comm="/usr/bin/gnome-scre
enshot --gapplication-service " label="unconfined")
Feb 27 11:50:35 prabhasnaidu2004 systemd[1]: Starting Hostname Service...
Feb 27 11:50:36 prabhasnaidu2004 dbus-daemon[569]: [system] Successfully activa
ted service 'org.freedesktop.hostname1'
Feb 27 11:50:36 prabhasnaidu2004 systemd[1]: Started Hostname Service.
Feb 27 11:50:38 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-
store.service' requested by ':1.2' (uid=1000 pid=1184 comm="/usr/libexec/tracke
r-miner-fs " label="unconfined")
Feb 27 11:50:38 prabhasnaidu2004 systemd[1175]: Starting Tracker metadata datab
ase store and lookup manager...
Feb 27 11:50:38 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 11:50:38 prabhasnaidu2004 systemd[1175]: Started Tracker metadata databa
se store and lookup manager.
Feb 27 11:50:38 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187]
Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract'
unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1184 comm="/us
r/libexec/tracker-miner-fs " label="unconfined")
Feb 27 11:50:38 prabhasnaidu2004 systemd[1175]: Starting Tracker metadata extra
ctor...
Feb 27 11:50:38 prabhasnaidu2004 tracker-extract[2878]: Set scheduler policy to
SCHED_IDLE
```

```
Feb 27 11:50:38 prabhasnaidu2004 tracker-extract[2878]: Setting priority nice level to 19
Feb 27 11:50:39 prabhasnaidu2004 dbus-daemon[1187]: [session uid=1000 pid=1187] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 11:50:39 prabhasnaidu2004 systemd[1175]: Started Tracker metadata extractor.
Feb 27 11:50:49 prabhasnaidu2004 systemd[1175]: tracker-extract.service: Succeeded.
Feb 27 11:51:06 prabhasnaidu2004 systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 11:51:09 prabhasnaidu2004 tracker-store[2871]: OK
Feb 27 11:51:09 prabhasnaidu2004 systemd[1175]: tracker-store.service: Succeeded.
prabhasnaidu2004@prabhasnaidu2004:~$
```

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

a. Alphabetically

```
prabhasnaidu2004@prabhasnaidu2004:~$ sort test2.txt
e
q
r
t
w
y
```

b. Reverse

```
prabhasnaidu2004@prabhasnaidu2004:~$ sort -r test2.txt
y
w
t
r
q
e
```

c. Numeric

```
prabhasnaidu2004@prabhasnaidu2004:~$ sort -n test2.txt
1
2
3
4
4
5
5
7
8
9
51
345
1234
5262
09999
45624
123135
```


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?

Ans: Exporting them to a word/ text file, then using the sort | uniq command.

Eg: let the file be named, criminals: sort criminals / uniq --c

6. What are the four parts of file's permission?

Ans: Read, Write, Delete, Execute

Four parts of files's permissions:

r w x - user can read,write and execute the file

r x - user can read and execute but can't write the file.

r w - user can read and write the but but can't execute the file.

r - user can only read the file but can't write or execute it.