

Task-5

Part-2

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1.

A screenshot of a Linux desktop environment. The top panel shows the 'Activities' button, a 'Terminal' window icon, and the system clock displaying 'Mar 1 10:28'. The desktop background is dark purple. On the left side, there is a vertical dock with several application icons: a web browser, a mail client, a file manager, a terminal, a question mark icon, and a terminal icon. The terminal window is open, showing a prompt 'zeusjupiter@zeus: ~'. The user has entered the command 'printf 'Harshll\nX.0s' {1..25}', which has resulted in 25 lines of 'Harshll' being printed. The terminal window has three tabs, all titled 'zeusjupiter@zeus: ~'. The bottom-left corner of the desktop features a 3x3 grid of dots, likely representing a workspace or application menu.

The image shows a Linux terminal window with a dark theme. The title bar at the top indicates the window is titled "zeusjupiter@zeus: -". The terminal content displays a series of system logs and device configuration details. The logs start with a timestamp of "Mar 1 10:29:42" and show messages from the "zeus" user. The logs include information about the addition of a device, the configuration of the udev system, and the application of the "libinput" pointer catchall. The logs also show the system's response to the "libinput" driver and the "spice_vdagent" tablet. The logs conclude with a message from the "gnome-shell" process, indicating that the "Window manager" is warning about overwriting existing bindings of keysym 31 with keysym 31 (keycode a).

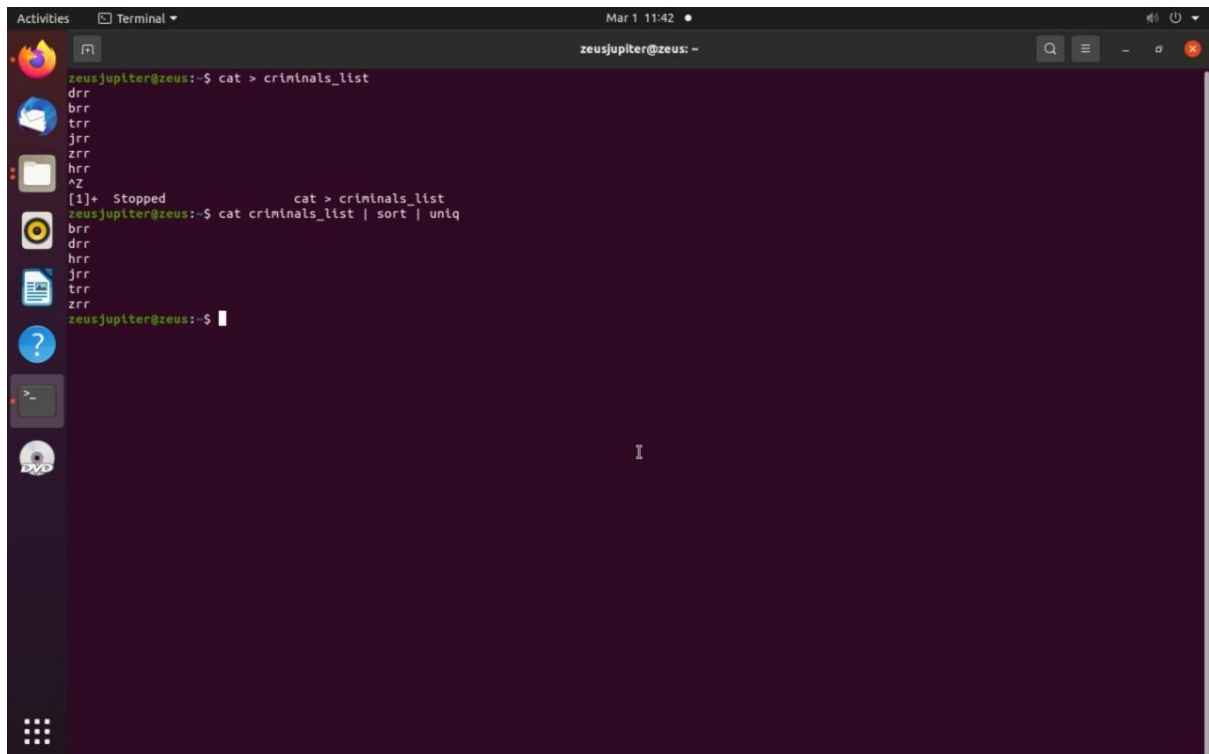
```
zeusjupiter@zeus: ~  
$ tail -30 /var/log/syslog  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) This device may have been added with another device file.  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) config/udev: Adding input device spice_vdagent tablet (/dev/input/event4)  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) spice_vdagent tablet: Applying InputClass 'libinput pointer catchall'  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) Using input driver 'libinput' for 'spice_vdagent tablet'  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) systemd-logind: got fd for /dev/input/event4 13:68 fd 55 paused 0  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) spice_vdagent tablet: always reports core events  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) Option "Device" "/dev/input/event4"  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) Option "_source" "server/udev"  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) event4 - spice_vdagent tablet: is tagged by udev as: Mouse  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) event4 - spice_vdagent tablet: device is a pointer  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) event4 - spice_vdagent tablet: device removed  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) Option "config_info" "udev:/sys/devices/virtual/input/input28/event4"  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) XINPUT: Adding extended input device "spice_vdagent tablet" (type: MOUSE, id 10)  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) Option "AccelerationScheme" "none"  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) spice_vdagent tablet: (accel) selected scheme none/0  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) spice_vdagent tablet: (accel) acceleration factor: 2.000  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (**) spice_vdagent tablet: (accel) acceleration threshold: 4  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) event4 - spice_vdagent tablet: is tagged by udev as: Mouse  
Mar 1 10:29:42 zeus /usr/lib/gdm3/gdm-x-session[1651]: (II) event4 - spice_vdagent tablet: device is a pointer  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).  
Mar 1 10:29:42 zeus gnome-shell[1778]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).  
Mar 1 10:30:01 zeus CROW[5274]: (root) CMD [ -x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ] ; then /usr/sbin/invoke-rc.d anacron start > /dev/null; fi  
Mar 1 10:30:34 zeus systemd[1554]: Started VTE child process 5277 launched by gnome-terminal-server process 4563.  
zeusjupiter@zeus: ~
```

4.

```
Activities Terminal Mar 1 11:34 zeusjupiter@zeus: ~
zeusjupiter@zeus:~$ cat > alphabetical
a
f
t
s
j
b
^Z
[1]+  Stopped                  cat > alphabetical
zeusjupiter@zeus:~$ cat alphabetical | sort
a
b
f
j
s
t
zeusjupiter@zeus:~$ cat alphabetical | sort -r
t
s
j
f
b
a
zeusjupiter@zeus:~$
```

```
Activities Terminal Mar 1 11:36 zeusjupiter@zeus: ~
t
s
j
b
^Z
[1]+  Stopped                  cat > alphabetical
zeusjupiter@zeus:~$ cat alphabetical | sort
a
b
f
j
s
t
zeusjupiter@zeus:~$ cat alphabetical | sort -r
t
s
j
f
b
a
zeusjupiter@zeus:~$ cat > alphabetical
a
t
r
s
j
b
s
2
6
8
^Z
[2]+  Stopped                  cat > alphabetical
zeusjupiter@zeus:~$ cat alphabetical | sort -n
a
b
f
j
s
t
2
s
6
8
zeusjupiter@zeus:~$
```

5.

A terminal window titled 'Terminal' with a dark background. The prompt is 'zeusjupiter@zeus: ~'. The user enters 'cat > criminals_list', which creates a file. The terminal then displays the contents of the file: 'drr', 'brr', 'trr', 'jrr', 'zrr', 'hrr', and '^Z'. The user then enters 'cat > criminals_list', which overwrites the file. Finally, the user enters 'cat criminals_list | sort | uniq', which sorts the file's contents and removes duplicates, resulting in the output: 'brr', 'drr', 'hrr', 'jrr', 'trr', and 'zrr'.

```
zeusjupiter@zeus:~$ cat > criminals_list
drr
brr
trr
jrr
zrr
hrr
^Z
[1]+  Stopped                  cat > criminals_list
zeusjupiter@zeus:~$ cat criminals_list | sort | uniq
brr
drr
hrr
jrr
trr
zrr
zeusjupiter@zeus:~$
```

6 Ans) Read ,Write and Execute