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1  /*
2  Name - Atharva Paliwal
3  Experiment no.1 - Problem Statement 2 OUTPUT
4  */
5
6
7  atharva@atharva:~$ cd cse4b
8  atharva@atharva:~/cse4b$ ps -ef
9  UID          PID    PPID  C  STIME TTY          TIME CMD
10 root           1        0  0 13:20 ?        00:00:02 /sbin/init splash
11 root           2        0  0 13:20 ?        00:00:00 [kthreadd]
12 root           4        2  0 13:20 ?        00:00:00 [kworker/0:0H]
13 root           5        2  0 13:20 ?        00:00:00 [kworker/u8:0]
14 root           6        2  0 13:20 ?        00:00:00 [mm_percpu_wq]
15 root           7        2  0 13:20 ?        00:00:00 [ksoftirqd/0]
16 root           8        2  0 13:20 ?        00:00:00 [rcu_sched]
17 root           9        2  0 13:20 ?        00:00:00 [rcu_bh]
18 root          10        2  0 13:20 ?        00:00:00 [migration/0]
19 root          11        2  0 13:20 ?        00:00:00 [watchdog/0]
20 root          12        2  0 13:20 ?        00:00:00 [cpuhp/0]
21 root          13        2  0 13:20 ?        00:00:00 [cpuhp/1]
22 root          14        2  0 13:20 ?        00:00:00 [watchdog/1]
23 root          15        2  0 13:20 ?        00:00:00 [migration/1]
24 root          16        2  0 13:20 ?        00:00:00 [ksoftirqd/1]
25 root          17        2  0 13:20 ?        00:00:00 [kworker/1:0]
26 root          18        2  0 13:20 ?        00:00:00 [kworker/1:0H]
27 root          19        2  0 13:20 ?        00:00:00 [cpuhp/2]
28 root          20        2  0 13:20 ?        00:00:00 [watchdog/2]
29 root          21        2  0 13:20 ?        00:00:00 [migration/2]
30 root          22        2  0 13:20 ?        00:00:00 [ksoftirqd/2]
31 root          24        2  0 13:20 ?        00:00:00 [kworker/2:0H]
32 root          25        2  0 13:20 ?        00:00:00 [cpuhp/3]
33 root          26        2  0 13:20 ?        00:00:00 [watchdog/3]
34 root          27        2  0 13:20 ?        00:00:00 [migration/3]
35 root          28        2  0 13:20 ?        00:00:00 [ksoftirqd/3]
36 root          29        2  0 13:20 ?        00:00:00 [kworker/3:0]
37 root          30        2  0 13:20 ?        00:00:00 [kworker/3:0H]
38 root          31        2  0 13:20 ?        00:00:00 [kdevtmpfs]
39 root          32        2  0 13:20 ?        00:00:00 [netns]
40 root          33        2  0 13:20 ?        00:00:00 [rcu_tasks_kthre]
41 root          34        2  0 13:20 ?        00:00:00 [kauditd]
42 root          35        2  0 13:20 ?        00:00:00 [kworker/0:1]
43 root          36        2  0 13:20 ?        00:00:00 [khungtaskd]
44 root          37        2  0 13:20 ?        00:00:00 [oom_reaper]
45 root          38        2  0 13:20 ?        00:00:00 [writeback]
46 root          39        2  0 13:20 ?        00:00:00 [kcompactd0]
47 root          40        2  0 13:20 ?        00:00:00 [ksmd]
48 root          41        2  0 13:20 ?        00:00:00 [khugepaged]
49 root          42        2  0 13:20 ?        00:00:00 [crypto]
50 root          43        2  0 13:20 ?        00:00:00 [kintegrityd]
51 root          44        2  0 13:20 ?        00:00:00 [kblockd]
52 root          45        2  0 13:20 ?        00:00:00 [ata_sff]
53 root          46        2  0 13:20 ?        00:00:00 [md]
54 root          47        2  0 13:20 ?        00:00:00 [edac-poller]
55 root          48        2  0 13:20 ?        00:00:00 [devfreq_wq]
56 root          49        2  0 13:20 ?        00:00:00 [watchdogd]
57 root          50        2  0 13:20 ?        00:00:00 [kworker/u8:1]
58 root          51        2  0 13:20 ?        00:00:00 [kworker/3:1]
59 root          53        2  0 13:20 ?        00:00:00 [kswapd0]
60 root          54        2  0 13:20 ?        00:00:00 [ecryptfs-kthrea]
61 root          60        2  0 13:20 ?        00:00:00 [kworker/2:1]
62 root          61        2  0 13:20 ?        00:00:00 [kworker/1:1]
63 root          98        2  0 13:20 ?        00:00:00 [kthrotld]
64 root          99        2  0 13:20 ?        00:00:00 [acpi_thermal_pm]
65 root         100        2  0 13:20 ?        00:00:00 [scsi_eh_0]
66 root         101        2  0 13:20 ?        00:00:00 [scsi_tmf_0]
67 root         102        2  0 13:20 ?        00:00:00 [scsi_eh_1]
68 root         103        2  0 13:20 ?        00:00:00 [scsi_tmf_1]
69 root         104        2  0 13:20 ?        00:00:00 [kworker/u8:2]

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70	root	105	2	0	13:20	?	00:00:00	[kworker/u8:3]
71	root	109	2	0	13:20	?	00:00:00	[ipv6_addrconf]
72	root	118	2	0	13:20	?	00:00:00	[kstrp]
73	root	135	2	0	13:20	?	00:00:00	[charger_manager]
74	root	171	2	0	13:20	?	00:00:00	[kworker/0:2]
75	root	190	2	0	13:20	?	00:00:00	[kworker/1:2]
76	root	191	2	0	13:20	?	00:00:00	[scsi_eh_2]
77	root	192	2	0	13:20	?	00:00:00	[scsi_tm_f_2]
78	root	193	2	0	13:20	?	00:00:00	[ttm_swap]
79	root	194	2	0	13:20	?	00:00:00	[irq/18-vmwgfx]
80	root	196	2	0	13:20	?	00:00:00	[kworker/2:1H]
81	root	197	2	0	13:20	?	00:00:00	[kworker/3:1H]
82	root	207	2	0	13:20	?	00:00:00	[kworker/0:1H]
83	root	211	2	0	13:20	?	00:00:00	[kworker/1:1H]
84	root	219	2	0	13:20	?	00:00:00	[jbd2/sda1-8]
85	root	220	2	0	13:20	?	00:00:00	[ext4-rsv-conver]
86	root	255	1	0	13:20	?	00:00:00	/lib/systemd/systemd-journald
87	root	271	2	0	13:20	?	00:00:00	[kworker/2:2]
88	root	273	1	0	13:20	?	00:00:00	/lib/systemd/systemd-udev
89	root	292	2	0	13:20	?	00:00:00	[loop0]
90	root	294	2	0	13:20	?	00:00:00	[loop1]
91	root	295	2	0	13:20	?	00:00:00	[loop2]
92	root	297	2	0	13:20	?	00:00:00	[loop3]
93	root	302	2	0	13:20	?	00:00:00	[loop4]
94	root	304	2	0	13:20	?	00:00:00	[loop5]
95	root	305	2	0	13:20	?	00:00:00	[loop6]
96	root	306	2	0	13:20	?	00:00:00	[loop7]
97	root	307	2	0	13:20	?	00:00:00	[loop8]
98	root	308	2	0	13:20	?	00:00:00	[loop9]
99	root	316	2	0	13:20	?	00:00:00	[loop10]
100	root	317	2	0	13:20	?	00:00:00	[loop11]
101	root	318	2	0	13:20	?	00:00:00	[loop12]
102	root	319	2	0	13:20	?	00:00:00	[loop13]
103	root	320	2	0	13:20	?	00:00:00	[loop14]
104	root	321	2	0	13:20	?	00:00:00	[loop15]
105	root	322	2	0	13:20	?	00:00:00	[loop16]
106	root	323	2	0	13:20	?	00:00:00	[loop17]
107	root	361	2	0	13:20	?	00:00:00	[kworker/3:2]
108	root	428	2	0	13:20	?	00:00:00	[iprt-VBoxWQueue]
109	systemd+	586	1	0	13:20	?	00:00:00	/lib/systemd/systemd-resolved
110	syslog	593	1	0	13:20	?	00:00:00	/usr/sbin/rsyslogd -n
111	root	594	1	0	13:20	?	00:00:00	/usr/sbin/cupsd -l
112	message+	596	1	0	13:20	?	00:00:01	/usr/bin/dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
113	root	629	1	0	13:20	?	00:00:00	/sbin/wpa_supplicant -u -s -O /run/wpa_supplicant
114	root	630	1	0	13:20	?	00:00:00	/usr/sbin/ModemManager
115	root	631	1	0	13:20	?	00:00:00	/usr/sbin/NetworkManager --no-daemon
116	root	632	1	0	13:20	?	00:00:00	/lib/systemd/systemd-logind
117	root	638	1	0	13:20	?	00:00:00	/usr/sbin/cron -f
118	root	639	1	0	13:20	?	00:00:00	/usr/sbin/irqbalance --foreground
119	root	644	1	0	13:20	?	00:00:00	/usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-triggers
120	root	646	1	0	13:20	?	00:00:00	/usr/lib/udisks2/udisksd
121	root	647	1	0	13:20	?	00:00:02	/usr/lib/snapd/snapd
122	root	669	1	0	13:20	?	00:00:00	/usr/sbin/acpid
123	avahi	670	1	0	13:20	?	00:00:00	avahi-daemon: running [atharva.local]
124	root	671	1	0	13:20	?	00:00:00	/usr/lib/accountsservice/accounts-daemon
125	root	684	1	0	13:20	?	00:00:00	/usr/lib/policykit-1/polkitd --no-debug
126	avahi	688	670	0	13:20	?	00:00:00	avahi-daemon: chroot helper
127	root	689	1	0	13:20	?	00:00:00	/usr/sbin/cups-browsed
128	root	763	631	0	13:20	?	00:00:00	/sbin/dhclient -d -q -sf /usr/lib/NetworkManager/nm-dhcp-helper -pf /run/dhclient-enp0s3.pid -lf /var/lib/NetworkManager/dhclient-fc6a6f5e-26d6-38a4-a0b6-0d
129	whoopsie	783	1	0	13:21	?	00:00:00	/usr/bin/whoopsie -f
130	kernoops	806	1	0	13:21	?	00:00:00	/usr/sbin/kerneloops --test
131	kernoops	808	1	0	13:21	?	00:00:00	/usr/sbin/kerneloops
132	root	930	1	0	13:21	?	00:00:00	VBoxClient --vmsvga
133	root	931	930	0	13:21	?	00:00:00	VBoxClient --vmsvga

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134 root          946      1  0 13:21 ?          00:00:00 /usr/sbin/gdm3
135 root          954      1  0 13:21 ?          00:00:00 /usr/sbin/VBoxService --pidfile
    /var/run/vboxadd-service.sh
136 root          963      946  0 13:21 ?          00:00:00 gdm-session-worker
    [pam/gdm-launch-environment]
137 gdm            972      1  0 13:21 ?          00:00:00 /lib/systemd/systemd --user
138 gdm            973      972  0 13:21 ?          00:00:00 (sd-pam)
139 gdm            984      963  0 13:21 tty1       00:00:00 /usr/lib/gdm3/gdm-wayland-session
    gnome-session --autostart /usr/share/gdm/greeter/autostart
140 gdm            986      972  0 13:21 ?          00:00:00 /usr/bin/dbus-daemon --session
    --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
141 gdm            988      984  0 13:21 tty1       00:00:00
    /usr/lib/gnome-session/gnome-session-binary --autostart /usr/share/gdm/greeter/autostart
142 gdm            994      988  2 13:21 tty1       00:00:09 /usr/bin/gnome-shell
143 root          1001      1  0 13:21 ?          00:00:00 /usr/lib/upower/upowerd
144 gdm           1014      994  0 13:21 tty1       00:00:00 /usr/bin/Xwayland :1024 -rootless
    -terminate -accessx -core -listen 4 -listen 5 -displayfd 6
145 gdm           1021      972  0 13:21 ?          00:00:00 /usr/lib/at-spi2-core/at-spi-bus-launcher
146 gdm           1026      1021  0 13:21 ?          00:00:00 /usr/bin/dbus-daemon
    --config-file=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 3
147 gdm           1028      972  0 13:21 ?          00:00:00 /usr/lib/at-spi2-core/at-spi2-registryd
    --use-gnome-session
148 gdm           1032      972  0 13:21 ?          00:00:01 /usr/bin/pulseaudio --daemonize=no
149 rtkit          1033      1  0 13:21 ?          00:00:00 /usr/lib/rtkit/rtkit-daemon
150 gdm           1050      994  0 13:21 tty1       00:00:00 ibus-daemon --xim --panel disable
151 gdm           1053      1050  0 13:21 tty1       00:00:00 /usr/lib/ibus/ibus-dconf
152 gdm           1056      1  0 13:21 tty1       00:00:00 /usr/lib/ibus/ibus-x11 --kill-daemon
153 gdm           1060      972  0 13:21 ?          00:00:00 /usr/lib/ibus/ibus-portal
154 root           1076      1  0 13:21 ?          00:00:00 /usr/lib/x86_64-linux-gnu/boltd
155 root           1077      1  2 13:21 ?          00:00:08 /usr/lib/packagekit/packagekitd
156 gdm           1078      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-xsettings
157 gdm           1086      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-ally-settings
158 gdm           1089      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-clipboard
159 gdm           1091      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-color
160 gdm           1094      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-datetime
161 gdm           1097      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-housekeeping
162 gdm           1098      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-keyboard
163 gdm           1100      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-media-keys
164 gdm           1103      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-mouse
165 gdm           1104      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-power
166 gdm           1107      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-print-notifications
167 gdm           1110      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-rfkill
168 gdm           1111      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-screensaver-proxy
169 gdm           1116      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-sharing
170 gdm           1127      988  0 13:21 tty1       00:00:00
    /usr/lib/gnome-settings-daemon/gsd-smartcard
171 gdm           1132      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-sound
172 gdm           1133      988  0 13:21 tty1       00:00:00 /usr/lib/gnome-settings-daemon/gsd-wacom
173 colord         1150      1  0 13:21 ?          00:00:00 /usr/lib/colord/colord
174 gdm           1173      1050  0 13:21 tty1       00:00:00 /usr/lib/ibus/ibus-engine-simple
175 root           1194      946  0 13:21 ?          00:00:00 gdm-session-worker [pam/gdm-password]
176 atharva        1197      1  0 13:21 ?          00:00:00 /lib/systemd/systemd --user
177 atharva        1198      1197  0 13:21 ?          00:00:00 (sd-pam)
178 atharva        1211      1  0 13:21 ?          00:00:00 /usr/bin/gnome-keyring-daemon
    --daemonize --login
179 atharva        1215      1194  0 13:21 tty2       00:00:00 /usr/lib/gdm3/gdm-x-session
    --run-script env GNOME_SHELL_SESSION_MODE=ubuntu gnome-session --session=ubuntu
180 atharva        1217      1215  6 13:21 tty2       00:00:19 /usr/lib/xorg/Xorg vt2 -displayfd 3
    -auth /run/user/1000/gdm/Xauthority -background none -noreset -keeptty -verbose 3

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181 atharva      1227  1197  0 13:21 ?      00:00:00 /usr/bin/dbus-daemon --session
--address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
182 atharva      1230  1215  0 13:21 tty2    00:00:00
/usr/lib/gnome-session/gnome-session-binary --session=ubuntu
183 atharva      1327    1  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --clipboard
184 atharva      1329  1327  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --clipboard
185 atharva      1337    1  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --display
186 atharva      1338  1337  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --display
187 atharva      1342    1  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --seamless
188 atharva      1343  1342  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --seamless
189 atharva      1347    1  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --draganddrop
190 atharva      1349  1347  0 13:21 ?      00:00:00 /usr/bin/VBoxClient --draganddrop
191 atharva      1365  1230  0 13:21 ?      00:00:00 /usr/bin/ssh-agent /usr/bin/im-launch
env GNOME_SHELL_SESSION_MODE=ubuntu gnome-session --session=ubuntu
192 atharva      1368  1197  0 13:21 ?      00:00:00 /usr/lib/gvfs/gvfsd
193 atharva      1373  1197  0 13:21 ?      00:00:00 /usr/lib/gvfs/gvfsd-fuse
/run/user/1000/gvfs -f -o big_writes
194 atharva      1386  1197  0 13:21 ?      00:00:00
/usr/lib/at-spi2-core/at-spi-bus-launcher
195 atharva      1391  1386  0 13:21 ?      00:00:00 /usr/bin/dbus-daemon
--config-file=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 3
196 atharva      1393  1197  0 13:21 ?      00:00:00
/usr/lib/at-spi2-core/at-spi2-registryd --use-gnome-session
197 atharva      1417  1230 18 13:21 tty2    00:00:52 /usr/bin/gnome-shell
198 atharva      1430    1  0 13:21 ?      00:00:00 /usr/bin/pulseaudio --start
--log-target=syslog
199 atharva      1442  1417  0 13:21 tty2    00:00:00 ibus-daemon --xim --panel disable
200 atharva      1446  1442  0 13:21 tty2    00:00:00 /usr/lib/ibus/ibus-dconf
201 atharva      1448    1  0 13:21 tty2    00:00:00 /usr/lib/ibus/ibus-x11 --kill-daemon
202 atharva      1452  1197  0 13:21 ?      00:00:00 /usr/lib/ibus/ibus-portal
203 atharva      1462  1197  0 13:21 ?      00:00:00
/usr/lib/gnome-shell/gnome-shell-calendar-server
204 atharva      1468  1197  0 13:21 ?      00:00:00
/usr/lib/evolution/evolution-source-registry
205 atharva      1475  1197  0 13:21 ?      00:00:00 /usr/lib/dconf/dconf-service
206 atharva      1478  1197  0 13:21 ?      00:00:00
/usr/lib/gvfs/gvfs-udisks2-volume-monitor
207 atharva      1486  1197  0 13:21 ?      00:00:00
/usr/lib/gnome-online-accounts/goa-daemon
208 atharva      1487  1197  0 13:21 ?      00:00:00 /usr/lib/gvfs/gvfs-mtp-volume-monitor
209 atharva      1493  1197  0 13:21 ?      00:00:00
/usr/lib/gvfs/gvfs-gphoto2-volume-monitor
210 atharva      1497  1197  0 13:22 ?      00:00:00 /usr/lib/gvfs/gvfs-afc-volume-monitor
211 atharva      1502  1197  0 13:22 ?      00:00:00 /usr/lib/gvfs/gvfs-goat-volume-monitor
212 atharva      1511  1197  0 13:22 ?      00:00:00
/usr/lib/gnome-online-accounts/goa-identity-service
213 atharva      1520  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-power
214 atharva      1522  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-print-notifications
215 atharva      1523  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-rfkill
216 atharva      1524  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-screensaver-proxy
217 atharva      1528  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-sharing
218 atharva      1532  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-sound
219 atharva      1534  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-xsettings
220 atharva      1535  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-wacom
221 atharva      1545  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-smartcard
222 atharva      1556  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-ally-settings
223 atharva      1557  1230  0 13:22 tty2    00:00:00
/usr/lib/gnome-settings-daemon/gsd-color
224 atharva      1560  1230  0 13:22 tty2    00:00:00

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225 /usr/lib/gnome-settings-daemon/gsd-clipboard
atharva 1562 1230 0 13:22 tty2 00:00:00
226 /usr/lib/gnome-settings-daemon/gsd-housekeeping
atharva 1564 1230 0 13:22 tty2 00:00:00
227 /usr/lib/gnome-settings-daemon/gsd-datetime
atharva 1566 1230 0 13:22 tty2 00:00:00
228 /usr/lib/gnome-settings-daemon/gsd-media-keys
atharva 1569 1230 0 13:22 tty2 00:00:00
229 /usr/lib/gnome-settings-daemon/gsd-keyboard
atharva 1571 1230 0 13:22 tty2 00:00:00
230 /usr/lib/gnome-settings-daemon/gsd-mouse
atharva 1596 1 0 13:22 tty2 00:00:00
231 /usr/lib/gnome-settings-daemon/gsd-printer
atharva 1613 1230 1 13:22 tty2 00:00:05 /usr/bin/gnome-software
--gapplication-service
232 atharva 1615 1230 0 13:22 tty2 00:00:00
/usr/lib/gnome-disk-utility/gsd-disk-utility-notify
233 atharva 1632 1230 0 13:22 tty2 00:00:01 nautilus-desktop
234 atharva 1672 1197 0 13:22 ? 00:00:00
/usr/lib/evolution/evolution-calendar-factory
235 atharva 1680 1368 0 13:22 ? 00:00:00 /usr/lib/gvfs/gvfsd-trash --spawner
:1.7 /org/gtk/gvfs/exec_spaw/0
236 atharva 1682 1442 0 13:22 tty2 00:00:00 /usr/lib/ibus/ibus-engine-simple
237 atharva 1726 1672 0 13:22 ? 00:00:00
/usr/lib/evolution/evolution-calendar-factory-subprocess --factory all --bus-name
org.gnome.evolution.dataserver.Subprocess.Backend.Calendarx1672x2 --own-pa
238 atharva 1740 1197 0 13:22 ? 00:00:00
/usr/lib/evolution/evolution-addressbook-factory
239 atharva 1750 1740 0 13:22 ? 00:00:00
/usr/lib/evolution/evolution-addressbook-factory-subprocess --factory all --bus-name
org.gnome.evolution.dataserver.Subprocess.Backend.AddressBookx1740x2 --
240 root 1769 1 0 13:22 ? 00:00:00 /usr/lib/fwupd/fwupd
241 atharva 1819 1197 23 13:22 ? 00:00:57
/usr/lib/gnome-terminal/gnome-terminal-server
242 atharva 1831 1819 0 13:22 pts/0 00:00:00 bash
243 root 1854 2 0 13:22 ? 00:00:00 [kworker/1:3]
244 root 1857 2 0 13:22 ? 00:00:00 [kworker/3:3]
245 atharva 1858 1230 0 13:23 tty2 00:00:00 update-notifier
246 atharva 1883 1230 0 13:24 tty2 00:00:00 /usr/lib/deja-dup/deja-dup-monitor
247 atharva 1897 1831 18 13:25 pts/0 00:00:12 ./inf.out
248 atharva 1911 1819 0 13:25 pts/1 00:00:00 bash
249 atharva 1920 1911 0 13:26 pts/1 00:00:00 ps -ef
250 atharva@atharva:~/cse4b$ pstree -s -p 1897
251 systemd(1) —systemd(1197) —gnome-terminal- (1819) —bash(1831) —inf.out (1897)
252 atharva@atharva:~/cse4b$
253

```