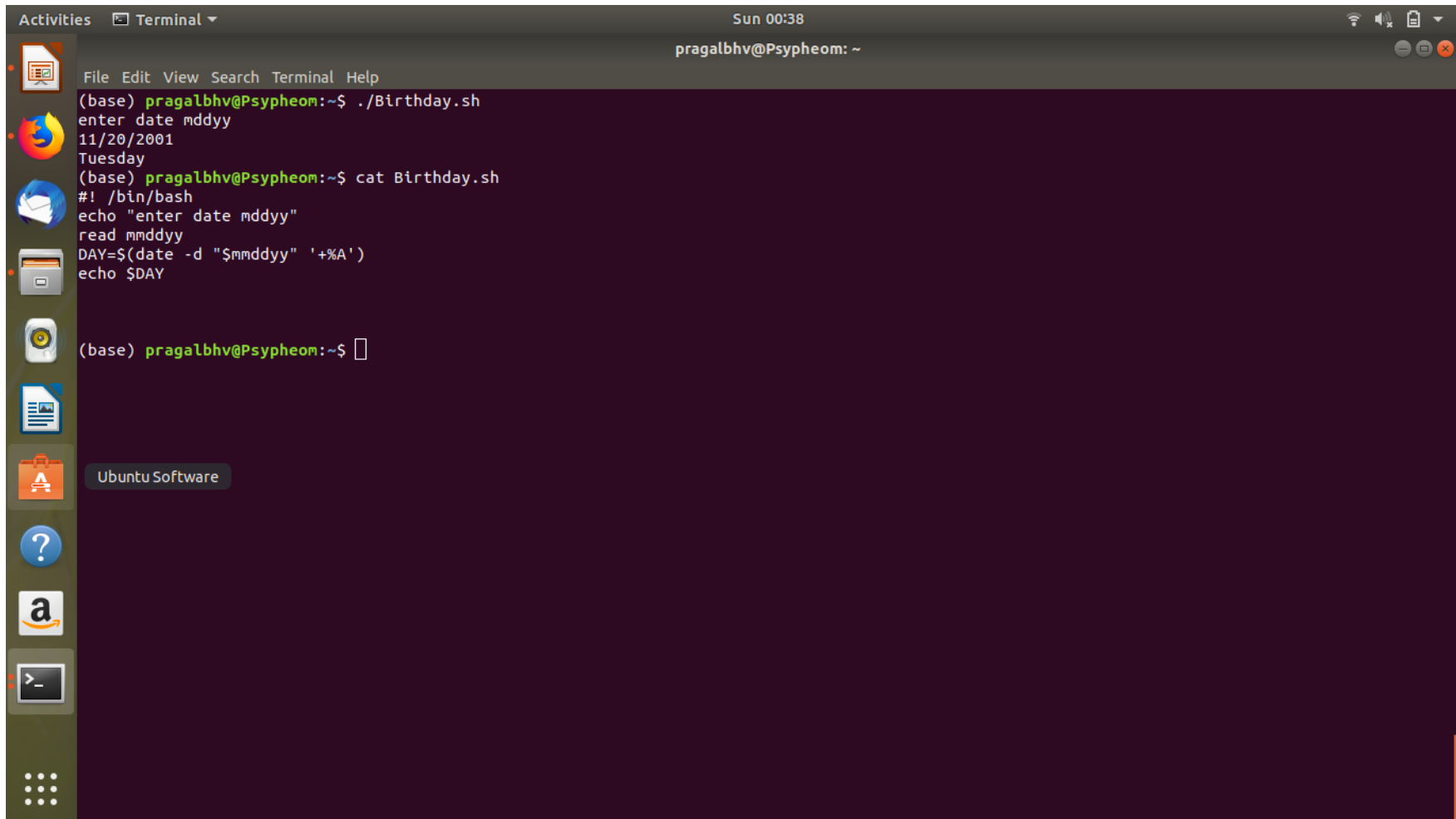


Homework 2

Session 4 5 6

Mm19b012

Write a command that displays the weekday

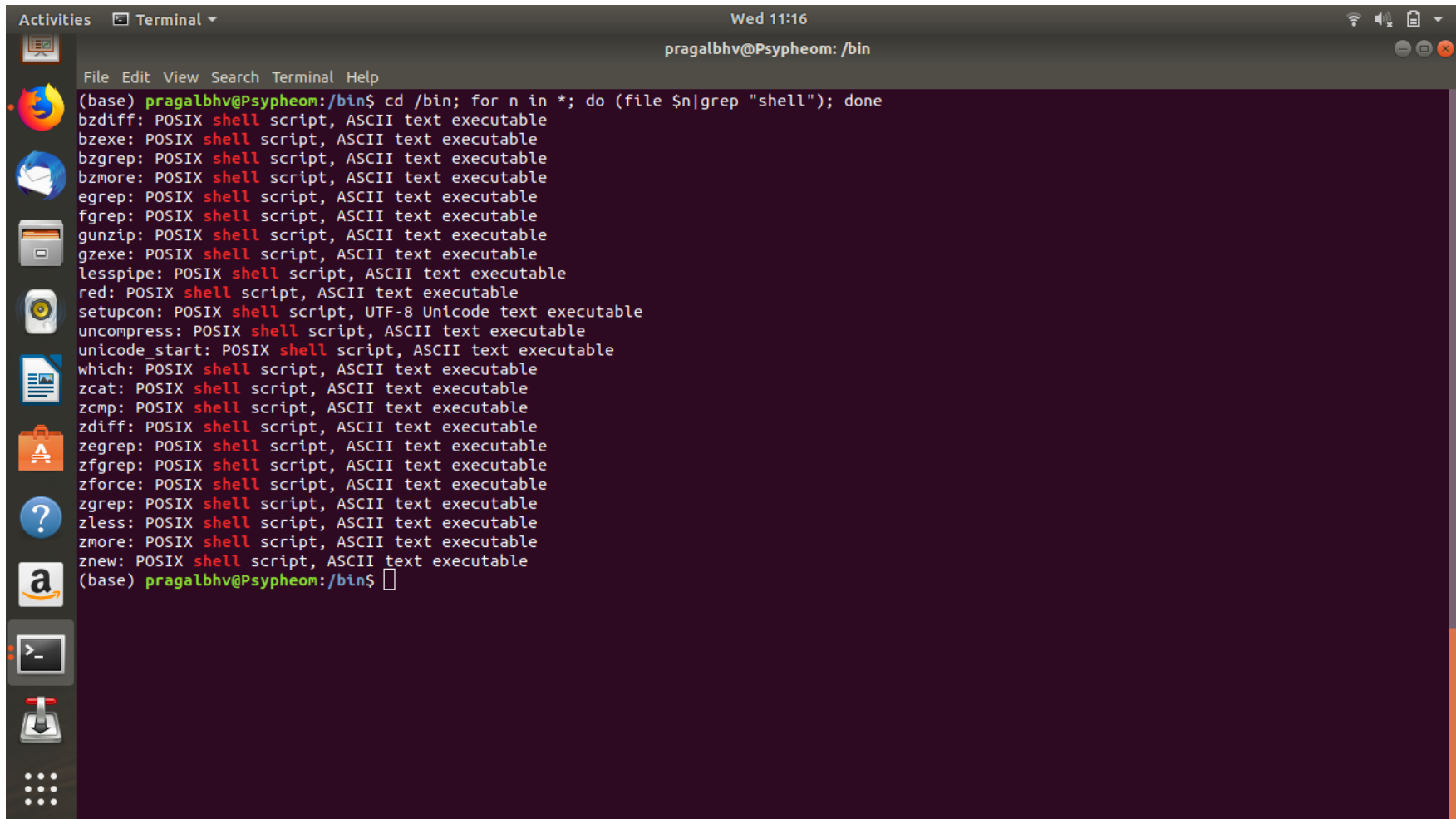


A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Sun 00:38, pragalbhv@Pyspheom: ~). The terminal shows the execution of a script named "Birthday.sh". The script prompts the user to enter a date in mmddyy format, which is then used to determine the day of the week. The output shows that the date 11/20/2001 is a Tuesday.

```
(base) pragalbhv@Pyspheom:~$ ./Birthday.sh
enter date mmddyy
11/20/2001
Tuesday
(base) pragalbhv@Pyspheom:~$ cat Birthday.sh
#!/bin/bash
echo "enter date mmddyy"
read mmddyy
DAY=$(date -d "$mmddyy" '+%A')
echo $DAY

(base) pragalbhv@Pyspheom:~$
```

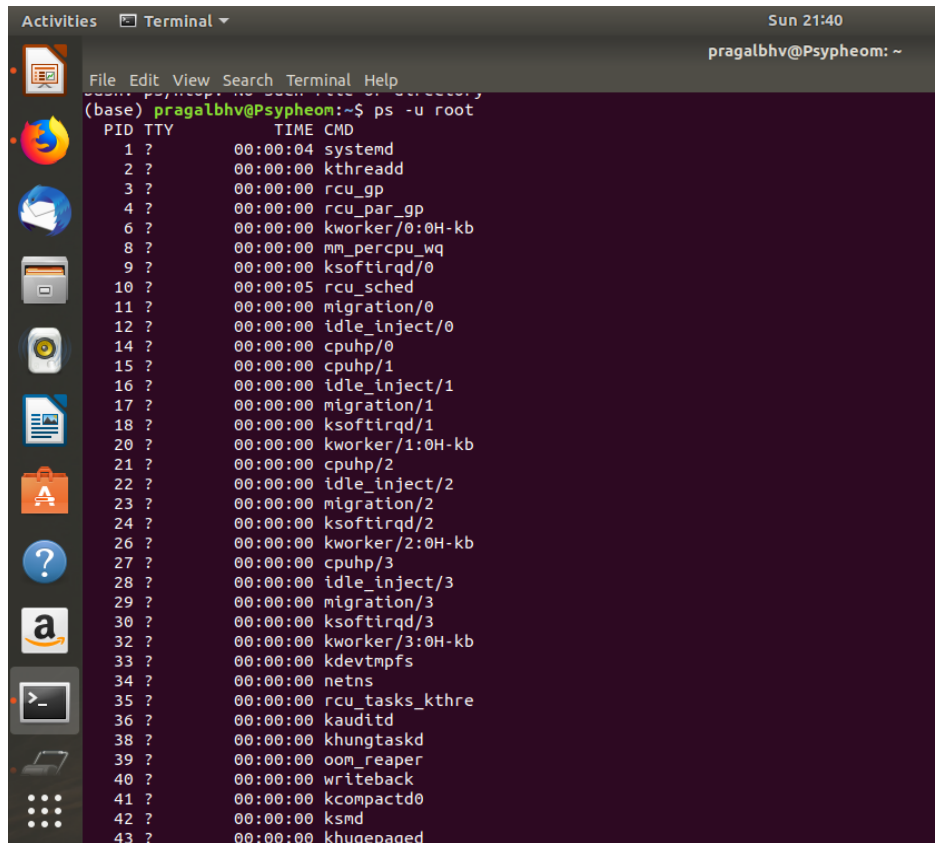
Create a command that lists all the shell scripts in the directory “/bin”



A terminal window titled "pragalbhv@Psyspheom: /bin" showing the execution of a command to list shell scripts in the /bin directory. The command is: `(base) pragalbhv@Psyspheom:/bin$ cd /bin; for n in *; do (file $n|grep "shell"); done`. The output lists 25 files, each identified as a POSIX shell script and ASCII text executable, except for `setupcon` which is UTF-8 Unicode text executable. The files listed are: `bzdiff`, `bzexe`, `bzgrep`, `bzmore`, `egrep`, `fgrep`, `gunzip`, `gzexe`, `lesspipe`, `red`, `setupcon`, `uncompress`, `unicode_start`, `which`, `zcat`, `zcmp`, `zdiff`, `zegrep`, `zfgrep`, `zforce`, `zgrep`, `zless`, `zmore`, and `znew`. The terminal window has a dark background with a sidebar on the left showing various application icons.

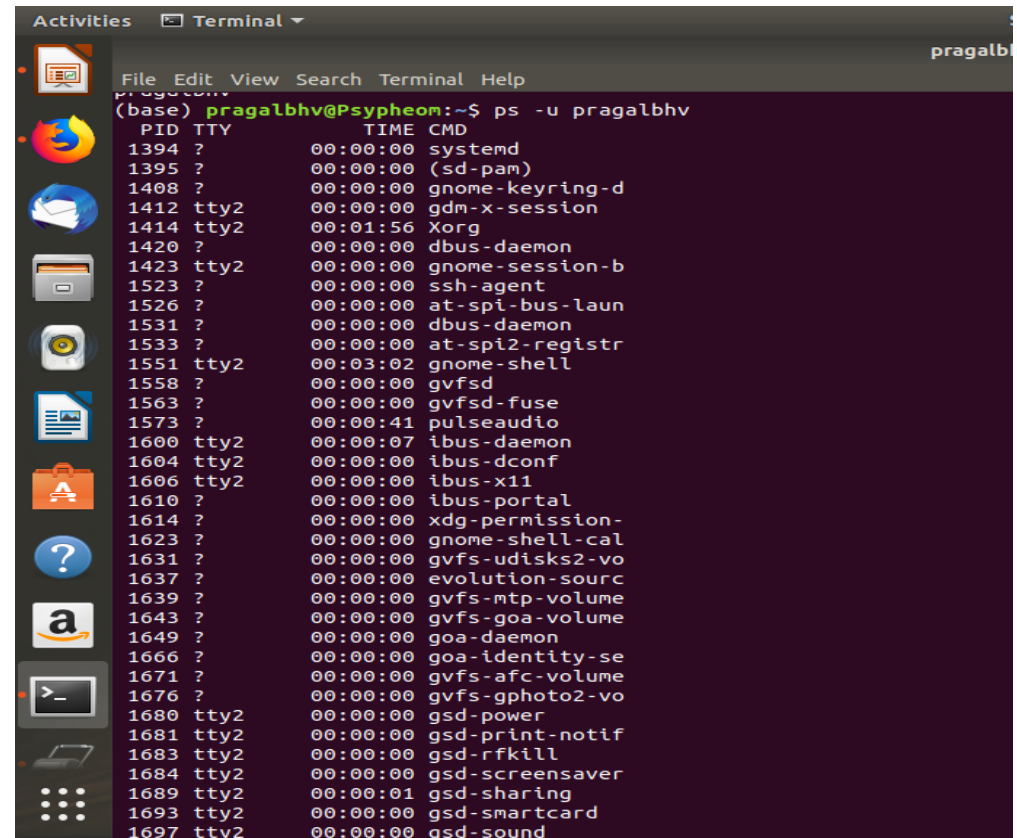
```
(base) pragalbhv@Psyspheom:/bin$ cd /bin; for n in *; do (file $n|grep "shell"); done
bzdiff: POSIX shell script, ASCII text executable
bzexe: POSIX shell script, ASCII text executable
bzgrep: POSIX shell script, ASCII text executable
bzmore: POSIX shell script, ASCII text executable
egrep: POSIX shell script, ASCII text executable
fgrep: POSIX shell script, ASCII text executable
gunzip: POSIX shell script, ASCII text executable
gzexe: POSIX shell script, ASCII text executable
lesspipe: POSIX shell script, ASCII text executable
red: POSIX shell script, ASCII text executable
setupcon: POSIX shell script, UTF-8 Unicode text executable
uncompress: POSIX shell script, ASCII text executable
unicode_start: POSIX shell script, ASCII text executable
which: POSIX shell script, ASCII text executable
zcat: POSIX shell script, ASCII text executable
zcmp: POSIX shell script, ASCII text executable
zdiff: POSIX shell script, ASCII text executable
zegrep: POSIX shell script, ASCII text executable
zfgrep: POSIX shell script, ASCII text executable
zforce: POSIX shell script, ASCII text executable
zgrep: POSIX shell script, ASCII text executable
zless: POSIX shell script, ASCII text executable
zmore: POSIX shell script, ASCII text executable
znew: POSIX shell script, ASCII text executable
(base) pragalbhv@Psyspheom:/bin$
```

List processes that are being run by root or logged-in user



Terminal window showing the output of the command `ps -u root`. The output lists system processes running as root.

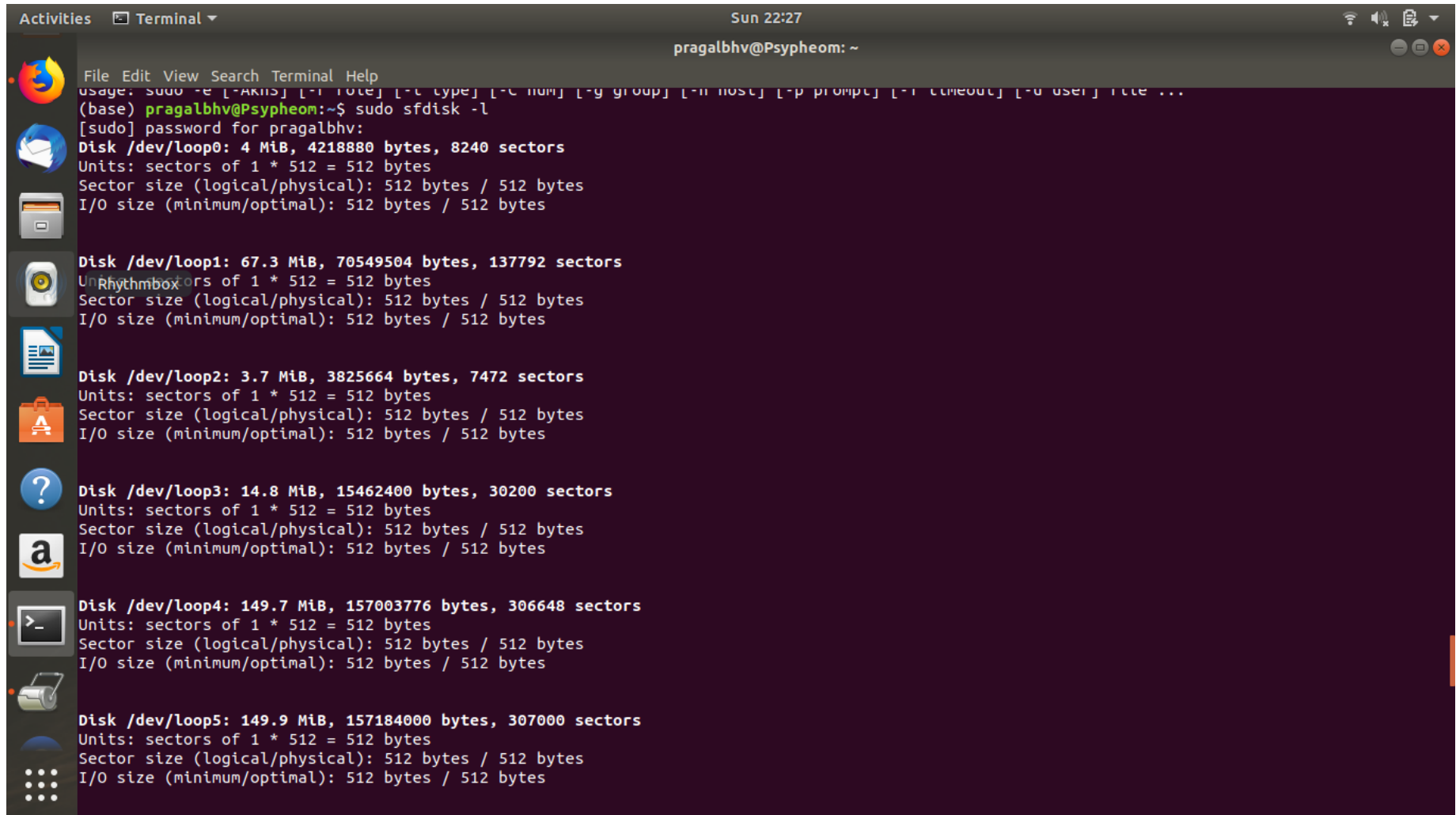
PID	TTY	TIME	CMD
1	?	00:00:04	systemd
2	?	00:00:00	kthreadd
3	?	00:00:00	rcu_gp
4	?	00:00:00	rcu_par_gp
6	?	00:00:00	kworker/0:0H-kb
8	?	00:00:00	mm_percpu_wq
9	?	00:00:00	ksoftirqd/0
10	?	00:00:05	rcu_sched
11	?	00:00:00	migration/0
12	?	00:00:00	idle_inject/0
14	?	00:00:00	cpuhp/0
15	?	00:00:00	cpuhp/1
16	?	00:00:00	idle_inject/1
17	?	00:00:00	migration/1
18	?	00:00:00	ksoftirqd/1
20	?	00:00:00	kworker/1:0H-kb
21	?	00:00:00	cpuhp/2
22	?	00:00:00	idle_inject/2
23	?	00:00:00	migration/2
24	?	00:00:00	ksoftirqd/2
26	?	00:00:00	kworker/2:0H-kb
27	?	00:00:00	cpuhp/3
28	?	00:00:00	idle_inject/3
29	?	00:00:00	migration/3
30	?	00:00:00	ksoftirqd/3
32	?	00:00:00	kworker/3:0H-kb
33	?	00:00:00	kdevtmpfs
34	?	00:00:00	netns
35	?	00:00:00	rcu_tasks_kthre
36	?	00:00:00	kauditd
38	?	00:00:00	khungtaskd
39	?	00:00:00	oom_reaper
40	?	00:00:00	writeback
41	?	00:00:00	kcompactd0
42	?	00:00:00	ksmd
43	?	00:00:00	khuqepaged



Terminal window showing the output of the command `ps -u pragalbhv`. The output lists user processes running as pragalbhv.

PID	TTY	TIME	CMD
1394	?	00:00:00	systemd
1395	?	00:00:00	(sd-pam)
1408	?	00:00:00	gnome-keyring-d
1412	tty2	00:00:00	gdm-x-session
1414	tty2	00:01:56	Xorg
1420	?	00:00:00	dbus-daemon
1423	tty2	00:00:00	gnome-session-b
1523	?	00:00:00	ssh-agent
1526	?	00:00:00	at-spi-bus-laun
1531	?	00:00:00	dbus-daemon
1533	?	00:00:00	at-spi2-registr
1551	tty2	00:03:02	gnome-shell
1558	?	00:00:00	gvfsd
1563	?	00:00:00	gvfsd-fuse
1573	?	00:00:41	pulseaudio
1600	tty2	00:00:07	ibus-daemon
1604	tty2	00:00:00	ibus-dconf
1606	tty2	00:00:00	ibus-x11
1610	?	00:00:00	ibus-portal
1614	?	00:00:00	xdg-permission-
1623	?	00:00:00	gnome-shell-cal
1631	?	00:00:00	gvfs-udisks2-vo
1637	?	00:00:00	evolution-sourc
1639	?	00:00:00	gvfs-mtp-volume
1643	?	00:00:00	gvfs-goa-volume
1649	?	00:00:00	goa-daemon
1666	?	00:00:00	goa-identity-se
1671	?	00:00:00	gvfs-afc-volume
1676	?	00:00:00	gvfs-gphoto2-vo
1680	tty2	00:00:00	gsd-power
1681	tty2	00:00:00	gsd-print-notif
1683	tty2	00:00:00	gsd-rfkill
1684	tty2	00:00:00	gsd-screensaver
1689	tty2	00:00:01	gsd-sharing
1693	tty2	00:00:00	gsd-smartcard
1697	tty2	00:00:00	gsd-sound

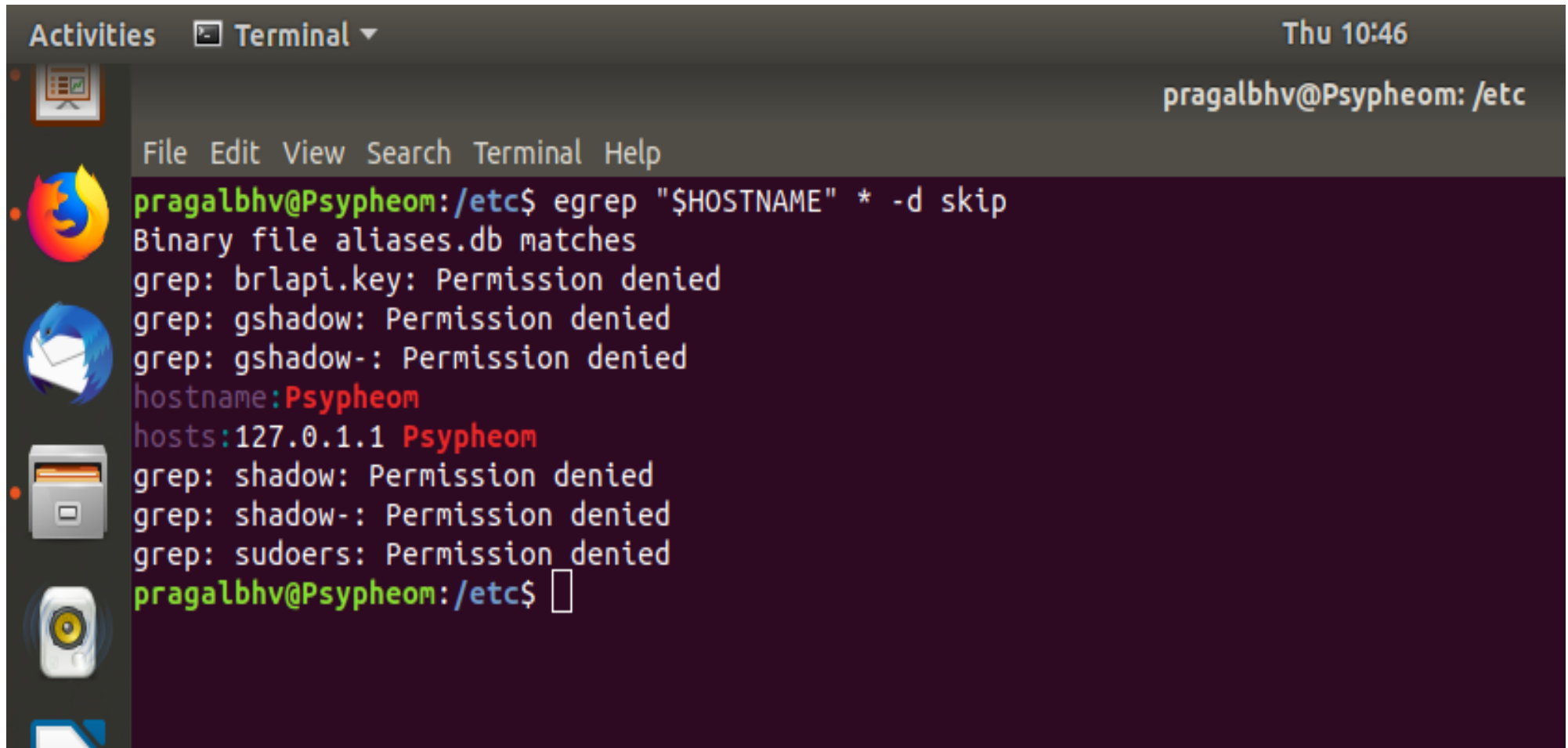
List used space for only mounted hard disk partitions



A terminal window titled 'pragalbvh@Pyspheom: ~' showing the output of the 'df' command. The output lists six loop devices with their respective sizes in MiB, bytes, and sectors, along with unit and sector size information.

```
pragalbvh@Pyspheom: ~  
usage: sudo -E [-AKiRS] [-F file] [-t type] [-C num] [-g group] [-H host] [-p prompt] [-T timeout] [-u user] file ...  
(base) pragalbvh@Pyspheom:~$ sudo df -l  
[sudo] password for pragalbvh:  
Disk /dev/loop0: 4 MiB, 4218880 bytes, 8240 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
  
Disk /dev/loop1: 67.3 MiB, 70549504 bytes, 137792 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
  
Disk /dev/loop2: 3.7 MiB, 3825664 bytes, 7472 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
  
Disk /dev/loop3: 14.8 MiB, 15462400 bytes, 30200 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
  
Disk /dev/loop4: 149.7 MiB, 157003776 bytes, 306648 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
  
Disk /dev/loop5: 149.9 MiB, 157184000 bytes, 307000 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

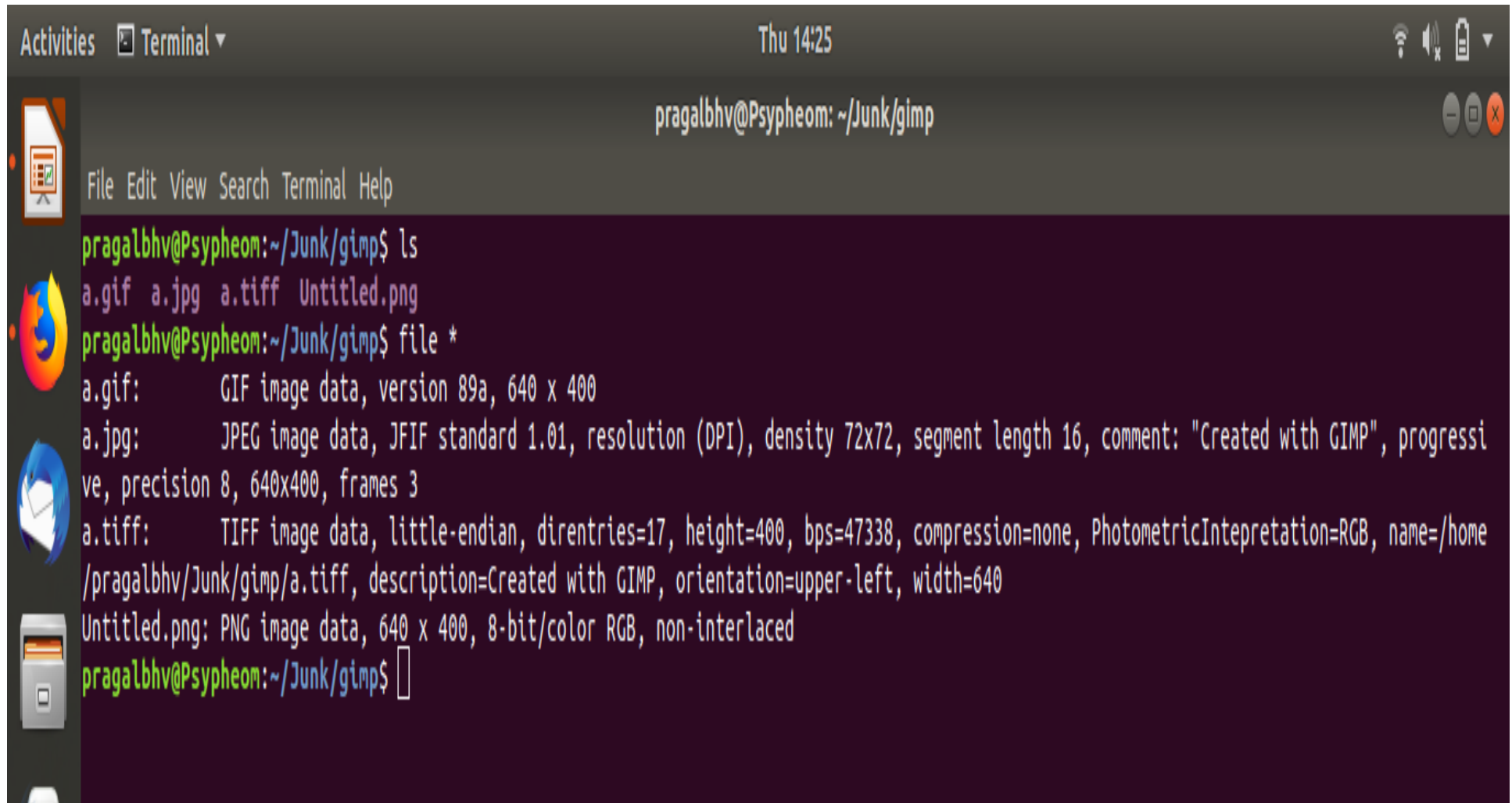
Find out which files in the /etc directory use the name of your machine



A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Thu 10:46, pragalbhv@Psypheom: /etc). The terminal shows the command `egrep "$HOSTNAME" * -d skip` and its output:

```
pragalbhv@Psypheom:/etc$ egrep "$HOSTNAME" * -d skip
Binary file aliases.db matches
grep: brlapi.key: Permission denied
grep: gshadow: Permission denied
grep: gshadow-: Permission denied
hostname:Psypheom
hosts:127.0.1.1 Psypheom
grep: shadow: Permission denied
grep: shadow-: Permission denied
grep: sudoers: Permission denied
pragalbhv@Psypheom:/etc$
```

Create images using the tool “gimp” and export to different formats like png, tiff, jpg, gif and bmp. Use the “file” command to see what the system knows about these formats.



The screenshot shows a terminal window titled "pragalbhv@Pyspheom: ~/Junk/gimp". The terminal output is as follows:

```
pragalbhv@Pyspheom:~/Junk/gimp$ ls
a.gif a.jpg a.tiff Untitled.png
pragalbhv@Pyspheom:~/Junk/gimp$ file *
a.gif:      GIF image data, version 89a, 640 x 400
a.jpg:      JPEG image data, JFIF standard 1.01, resolution (DPI), density 72x72, segment length 16, comment: "Created with GIMP", progressive, precision 8, 640x400, frames 3
a.tiff:      TIFF image data, little-endian, direntries=17, height=400, bps=47338, compression=none, PhotometricIntepretation=RGB, name=/home/pragalbhv/Junk/gimp/a.tiff, description=Created with GIMP, orientation=upper-left, width=640
Untitled.png: PNG image data, 640 x 400, 8-bit/color RGB, non-interlaced
pragalbhv@Pyspheom:~/Junk/gimp$
```