

A screenshot of a Linux desktop environment. At the top, there is a dark blue header bar with the following elements from left to right: a small icon, the text "Activities", a small icon, the text "Terminal", the date and time "13 Dec 14:01", and a power button icon. Below this header is a terminal window titled "divya@localhost:/home/divya". The terminal window has a dark background and contains the following text:

```
[root@localhost divya]# id hacker2  
uid=1003(hacker2) gid=1004(hacker2) groups=1004(hacker2)  
[root@localhost divya]#
```

A screenshot of a Linux desktop environment. At the top, there is a dark blue header bar with the following elements from left to right: a small icon, the text "Activities", a small icon, the text "Terminal", the date and time "13 Dec 14:02", and some system icons. Below this is a terminal window titled "divya@localhost:/home/divya". The terminal contains the following text:

```
[root@localhost divya]# id hacker2
uid=1003(hacker2) gid=1004(hacker2) groups=1004(hacker2)
[root@localhost divya]# passwd hacker2
Changing password for user hacker2.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost divya]#
```

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window has a dark blue background with a light blue vertical bar on the right side. The title bar of the terminal window says "divya@localhost:~". Inside the terminal, the following command and its output are visible:

```
[root@localhost divya]# userdel hacker2
[root@localhost divya]# id hacker2
id: 'hacker2': no such user
[root@localhost divya]#
```

```
avahi:x:70:
printadmin:x:995:
ssh_keys:x:994:
rtkit:x:172:
libstoragemgmt:x:993:
geoclue:x:992:
tss:x:59:clevis
cockpit-ws:x:991:
cockpit-wsinstance:x:990:
colord:x:989:
sssd:x:988:
setroubleshoot:x:987:
pipewire:x:986:
flatpak:x:985:
clevis:x:984:
brlapi:x:983:
gdm:x:42:
gnome-initial-setup:x:982:
sshd:x:74:
chrony:x:981:
slocate:x:21:
dnsmasq:x:980:
tcpdump:x:72:
sgx:x:979:
systemd-oom:x:978:
divya:x:1000:
divyaa:x:1001:
di:x:1002:
hacker:x:1003:
g1:x:1004:
g2:x:1005:
cat: g2: No such file or directory
[root@localhost divya]#
```

```
sssd:x:988:  
setroubleshoot:x:987:  
pipewire:x:986:  
flatpak:x:985:  
clevis:x:984:  
brlapi:x:983:  
gdm:x:42:  
gnome-initial-setup:x:982:  
sshd:x:74:  
chrony:x:981:  
slocate:x:21:  
dnsmasq:x:980:  
tcpdump:x:72:  
sgx:x:979:  
systemd-oom:x:978:  
divya:x:1000:  
divyaa:x:1001:  
di:x:1002:  
hacker:x:1003:  
g1:x:1004:  
g2:x:1005:  
cat: g2: No such file or directory  
[root@localhost divya]# gpasswd -a hacker2 g1  
gpasswd: user 'hacker2' does not exist  
[root@localhost divya]# gpasswd -a divya g1  
Adding user divya to group g1  
[root@localhost divya]# █ █ █
```

```
tss:x:59:clevvis
cockpit-ws:x:991:
cockpit-wsinstance:x:990:
colord:x:989:
sssd:x:988:
setroubleshoot:x:987:
pipewire:x:986:
flatpak:::985:
clevvis:x:984:
brlapic:x:983:
gdm:x:42:
gnome-initial-setup:x:982:
sshd:x:74:
chrony:x:981:
slocate::x:21:
dnsmasq:x:980:
tcpdump:x:72:
sgx:x:979:
systemd-oom:x:978:
divya:x:1000:
divyaax:x:1001:
di:x:1002:
hacker:x:1003:
g1::x:1004:
g2::x:1005:
cat: g2: No such file or directory
[root@localhost divya]# gpasswd -a hacker2 g1
gpasswd: user 'hacker2' does not exist
[root@localhost divya]# gpasswd -a divya g1
Adding user divya to group g1
[root@localhost divya]# gpasswd -d divya g1
Removing user divya from group g1
[root@localhost divya]#
```

```
-rw-rw-r--. 1 divya divya 25 Dec 11 14:11 softlink.txt
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Templates
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Videos
-rw-rw-r--. 1 divya divya 36 Dec 11 14:21 you
[root@localhost divya]# chown root san
chown: cannot access 'san': No such file or directory
[root@localhost divya]# cd
[root@localhost ~]# ll
total 8
-rw-----. 1 root root 1129 Dec 10 14:48 anaconda-ks.cfg
-rw-r--r--. 1 root root 2135 Dec 11 05:39 user
[root@localhost ~]# mkdir dl
[root@localhost ~]# ll
total 8
-rw-----. 1 root root 1129 Dec 10 14:48 anaconda-ks.cfg
drwxr-xr-x. 2 root root 6 Dec 13 14:14 dl
-rw-r--r--. 1 root root 2135 Dec 11 05:39 user
[root@localhost ~]# chown root divya
chown: cannot access 'divya': No such file or directory
[root@localhost ~]# cat /etc/group []
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:
cdrom:x:11:
audio:x:12:
```

```
-rw-rw-r--. 1 divya divya 25 Dec 11 14:11 softlink.txt
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Templates
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Videos
-rw-rw-r--. 1 divya divya 36 Dec 11 14:21 you
[divya@localhost ~]$ chmod 777 dir
[divya@localhost ~]$ chmod u=r,g=r,o=r dir
[divya@localhost ~]$ ll
total 36
-rw-rw-r--. 1 divya divya 129 Dec 11 06:33 :
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Desktop
drwxrwxrwx. 2 divya divya 6 Dec 11 13:21 .dir
dr--r--r--. 2 divya divya 30 Dec 11 07:24 dir1
drwxr-xr-x. 2 divya divya 6 Dec 18 14:52 Documents
drwxr-xr-x. 2 divya divya 6 Dec 18 14:52 Downloads
drwxrwxrwx. 1 divya divya 157 Dec 11 06:35 f1
-rw-rw-r--. 1 divya divya 6 Dec 11 14:00 file1.txt
-rw-rw-r--. 1 divya divya 6 Dec 11 07:20 file22
-rwxrwm-r--. 1 divya divya 17 Dec 11 14:03 files.txthardlinkk
-rw-rw-r--. 1 divya divya 4 Dec 11 13:59 file.txt
drwxr-xr-x. 2 divya divya 6 Dec 18 14:52 Music
drwxr-xr-x. 2 divya divya 6 Dec 18 14:52 Pictures
-rw-rw-r--. 1 divya divya 55 Dec 11 13:36 practice
-rw-rw-r--. 1 divya divya 49 Dec 11 13:25 practice.txt
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Public
-rw-rw-r--. 1 divya divya 25 Dec 11 14:11 softlink.txt
drwxr-xr-x. 2 divya divya 6 Dec 10 14:52 Templates
drwxr-xr-x. 2 divya divya 6 Dec 18 14:52 Videos
-rw-rw-r--. 1 divya divya 36 Dec 11 14:21 you
[divya@localhost ~]$ w
14:17:41 up 20 min, 1 user, load average: 0.23, 0.13, 0.19
USER     TTY      LOGIN@   IDLE   JCPU   PCPU WHAT
divya    tty2     13:57  20:18  8.09s  0.08s /usr/libexec/gnome-session-binary
[divya@localhost ~]$
```